

SCIENTIFIC CORRESPONDENCE OF PROFESSOR DRAGOŠ CVETKOVIĆ

Professor Dragoš Cvetković has saved and classified a part of his scientific correspondence. These archives are located in the Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Kneza Mihaila, 36. A part of the correspondence has been scanned and organized within several files whose names indicate the content and the period of time.

Each archive file is commented by D. Cvetković. Comments include some autobiographic facts which help in understanding the meaning of documents in the file. More details on the biography of D. Cvetković can be found in the book

Cvetković D., *Graphs as inspiration, Autobiographical Notes and Other Texts on the Occasion of Four Decades of Scientific Work in Mathematics (Serbian)*, Ed. V. Kovačević-Vujčić, Akademska misao, Beograd, 2006.

General comments on this electronic collection are contained in a separate file.

File: GENERAL CORRESPONDENCE, 1978 - 1984

Comments by D. Cvetković

There is an overlapping of periods of time with the file GENERAL CORRESPONDENCE, 1975 - 1978 but no overlapping of the included material.

In September 1979 Australian mathematician B.D. McKay visited Belgrade.

In the second half of 1979 I had much correspondence concerning the preparation of my trip to United States of America and Canada next year.

In the period 1980 - 1984 I was working with a group of collaborators on the programming package GRAPH, an expert system for graph theory.

In 1980 the first edition of the following book appeared:

Cvetković D., Doob M., Sachs H., *Spectra of Graphs - Theory and Application*, Deutscher Verlag der Wissenschaften - Academic Press, Berlin - New York, 1980; second edition, 1982; Russian translation, Naukova dumka, Kiev, 1984; III revised and enlarged edition, Johann Ambrosius Barth Verlag, Heidelberg - Leipzig, 1995.

The following book has also appeared:

Cvetković D., *Combinatorial Matrix Theory with Applications in Electrical Engineering, Chemistry and Physics (Serbian)*, Naučna knjiga, Beograd, 1980,

In the period April - June 1980 I had a scientific trip to United States of America and Canada.

In July 1983 I was a visiting professor at Technische Hochschule Ilmenau, DDR. On this occasion I visited also the Prague.

In July 1984 I took part in a conference on graph theory in the International Mathematical Centre, Oberwolfach, BR Germany.

Kragujevac, 30. I 1978.

Dragi Dragos

Šaljem Ti kopiju rada "On the characteristic and acyclic polynomials...", koji bih u otprilike ovom obliku želeo da objavim u jednom od izdanja Matematičkog Instituta.

Bio bih veoma zahvalan ako bi mi poslao svoje kritičke primedbe na ovaj rad. Ako ikako možeš, učini to za desetak dana, da bih mogao da izvršim tehničku opremu rukopisa još dok traje raspust.

U očekivanju vesti od Tebe

Srdačno Te pozdravlja

Jovan

Beograd 27.3.78.

Dragi Tome,

Šaljem Ti abstract koji si mi poslao sa mol-
bou da Ti budeš jedini autor (bar se radi u ovoj
preliminarnoj noti). Predlažem Ti da ovo pošalješ
na adresu:

Ronald Gould,
The Editor of Graph Theory News Letter,
Department of Mathematics,
Western Michigan University
Kalamazoo, Michigan 49008, USA.

U pismu ga zamoli da notu objavi u rubrici
"Abstracts".

Uzred, postoji rubrika "Address changes"
pa ga možeš zamoliti da objavi Tvoju novu adresu.

U pismu Ti šaljem i kopiju teksta o $f(G)=G$,
koji je napisao Simić.

Ovih dana "otajavom" poslove koji su se ne-
gavilali za vreme moje bolesti, predizborne aktivnosti
i posete Bobai-a. Nadam se da će Ti se uskoro
opet javiti.

U međuvremenu se javio Harary koji je odu-

Ševčen rezultati o grafovima jednodimenzionalnim
i pozvao je Simića i mene da uradimo bi-
bliografiju o grafovima jednodimenzionalnim za Journal
of Graph Theory! To je jedan poziv više. Naravno,
ubacili bi u bibliografiju i članak o $f(G) = G$
sa napomenom "to appear".

Zahvaljujem Ti na dolasku u Beograd kada
je Babai bio ovdje a posebno na zajedničkom
ručku.

Mnogo pozdrava

Dražo Petrović

St. John's University

NOTRE DAME COLLEGE

300 Howard Avenue

Staten Island, New York 10301

DIVISION OF EDUCATION

July 11, 1978

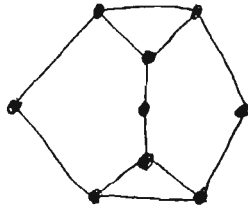
Dear Dragoš,

Thank you for your letter of July 6 and the bibliography. You and Simić are really doing some fine work. I'm very happy to see that you have arrived, and bid you a warm wellcome to North America. It is too bad that you will not be able to visit New York. As it turns out, it will not be possible for me to get to Winnipeg either. At this point it is a simple matter of expenses. I will be speaking at the statistical meetings in San Diego, California next month, and even though I am receiving some support from St. John's, that trip will essentially exhaust my budget! I will try to call you before you return so that we can at least talk to each other by phone.

It will interest you to know that we will have a new faculty member in the fall, Fred Buckley, who is very interested in graph equations. We hope to do some work together.

I have been considering a problem of some importance in my research in statistics in graphs, which can be expressed as a graph equation, $C(G) = G$, where $C(G)$ is the subgraph of G induced by the points of the center of G . I have found the following solutions, but have not characterized all solutions: disconnected graphs, complete graphs, cycles. Incidentally, I call graphs which satisfy the equation, "self-centered", and the

graph shown below is another solution, which does not fit into any of the above categories. It is also not difficult to $\frac{1}{2}$ prove that G is self-centered iff its radius and diameter are equal. I am interested, however, in a more useful characterization.



If you get interested in working on this problem (it appears quite difficult), and make any progress, please let me know. As I said previously, it has important applications for me.

Michael Doob may have a copy of my book with Molluzzo. I hope you have a chance to look at it. Best regards to him please, and I do hope you enjoy your stay in Canada.

Mich

Michael Capobianco

Sarajevo, 7.9.1978

Dragi kolega Cvetković,

Pre svega želim da Vam se zahvalim na primerku Vaše knjige o grafovima. Ja je uveliko koristim i propagiram zainteresovanima za primene teorije grafova, a kojih ima sve više i više. Jedna od zainteresovanih je i naša koleginica Mr. Gordana Jovanović-Doleček, sa kojom radim već duže vremena. Ona je podnela molbu za ocenu podobnosti teme i kandidata za izradu doktorske disertacije, koja se nalazi u prilogu.

Na Vijeću Nastavnika ETF-a Sarajevo, Vi ste predloženi za člana Komisije za ocenu teme i podobnosti Kandidata, ali predlog nije usvojen dok se ne dobije Vaša saglasnost. Ostali članovi Komisije, koji su dali svoju saglasnost, su dr. Emir Humo, dr. Dragoljub Milatović, i ja Brana Peruničić, kao mentor.

Pokušala sam da Vas zovem telefonom na Fakultetu, ali nisam uspela. Molila bih Vas da mi što pre na neki način javite da li prihvatate predlog.

Sa najlepšim željama

~~Br.~~ Brana Peruničić

B Peruničić

Telefon: Posao: 521-677 lok 24, ETF SARAJEVO, Lukavica

Kuća: 511-280 (posle 15^h) .Adresa: Nemanjina 61.

Dr. Dragoš Cvetković
Elektrotehnički fakultet
Beograd

Sarajevo, 19.9.1978

Dragi kolega,

Prvo želim da Vam se zahvalim što ste prihvatili da budete član Komisije za ocenu podobnosti teme i Kandidata za izradu doktorske disertacije, drugarice Gordane Jovanović-Doleček. U prilogu Vam šaljem 5 primjeraka Izveštaja Komisije, koje bi trebalo da potpišete. Ujedno Vam se izvinjavam što u Izveštaju nisu uneseni podaci o Vašem zvanju jer takav podatak nemam, te Vas molim da nam taj podatak dostavite, kako bi ga naknadno upisali u izveštaj.

Unapred Vam se puno zahvaljujem. Mnogo pozdrava
Brana Peruničić

Adresa: Brana Peruničić
Nemanjina 61
71000 SARAJEVO

26. listopada 1978.
»RUĐER BOŠKOWIĆ« INSTITUTE
41001 Zagreb, Croatia, Yugoslavia

POB 1016
PHONE: (041) 424-355
TELEX: 21-383

Dragi Gregor,
Mnogo vam hvala na postaloj
knjizi: "Disjunktne matematičke strukture",
koju su traktiranjem prelistavam. Želite
mi vrlo hem čistom velikom hvala!
Tu svoje dva najnovija rukopisa: CCA 51
(1978) 133-140, i Proceedings of Bremer
Konferencija za kemiju, Bremen (1978), želim
svoj kolegi Gutmanu da vam pošalje
separato.
Želite mnogo voljeli prošoru
od
Ante Golovec.

26. 09. 1978.
»RUĐER BOŠKOVIĆ« INSTITUTE
41001 Zagreb, Croatia, Yugoslavia

POB 1016
PHONE: (041) 424-355
TELEX: 21-383

Dr.
Dragoš Cvetković
Lamartinova 44
11000 Beograd

Dragi kolega Cvetkoviću,
Razveselio me kratak susret u Zagrebu, tim više jer su naši susreti katastrofalno rijetki. Šaljem vam popis radova iz teorije grafova:

A. Graovac, O.E. Polansky, N. Trinajstić, and N. Tyutyulkov, Graph Theory in Chemistry. II. Graph-theoretical Description of Heteroconjugated Molecules, Z. Naturforsch. 30a (1975) 1696-1699.

A. Graovac and N. Trinajstić, Möbius Molecules and Graphs, Croat. Chem. Acta 47 (1975) 95-104.

A. Graovac and N. Trinajstić, Graphical Description of Möbius Molecules, J. Mol. Struct. 30 (1976) 416-420.

A. Graovac, M. Randić, and N. Trinajstić, Search for Benzenoid Systems of Interest as Potential Units in Polymer Semiconductors, in preparation.

One publikacije gdje je jedan od autora Gutman rekli ste da već imate. Ipak ću vam navesti par novijih, za slučaj da ih niste dobili od Gutmana:

A. Graovac, I. Gutman, M. Randić, and N. Trinajstić, On Structural Features Characterizing Conductivity in Polymeric Conjugated Hydrocarbons, Colloid-Polymer Sci. 255 (1977) 480-487.

I. Gutman and A. Graovac, On Structural Factors Causing Stability Differences between Conjugated Isomers, Croat. Chem. Acta 49 (1977) 453-459.

A. Graovac, I. Gutman, and N. Trinajstić, Graph-theoretical Study of Conjugated Hydrocarbons. Total pi-Electron Energies and their Differences, Intern. J. Quantum Chem. (1978), in press.

ovo nije rad već samo apstrakt saopštenja na konferenciji. Predlažem da ih uvrstis u bibliografiju!



A. Graovac and I. Gutman, The Determinant of the Adjacency Matrix of the Graph of a Conjugated Molecule , Croat. Chem. Acta 51 (1978), in press. ✓

Ukoliko vas neki od navedenih radova zanima, molim vas da mi se javite pa ću vam poslati separate.

Srdačne pozdrave vam šalje

Ante

Ante Graovac.

P.S. Još jednom se preporučam za knjižicu na srpskom koju ste mi obećali, kao i na obavijesti o izlasku knjige sa H. Sachsom, koju bi naručio za našu knjižnicu a rado bih imao i svoj primjerak.

Prof. Dr Brana Peruničić
Nemanjina 61
71 Sarajevo

Beograd, 1.10.1978.god.

Draga Koleginice,

Hvala na Vašem pismu od 19.9.1978. godine. Nažalost, pošto sam proteklu nedelju proveo u Austriji na jednoj konferenciji, tek sada stižem da odgovorim. Sa predloženim izveštajem se slažem ali ipak predlažem sledeće:

1. Da se u zaključku ili na početku precizira o kakvom je doktoratu reč. (Pretpostavljam da kandidat želi da stekne naziv doktora elektrotehničkih nauka a verovatno Vaš Fakultet i daje samo takve doktorate).

2. Na str.7 ispred zaključka nalazi se rečenica: "Može se zaključiti da je tema teze na način kako je koncipirano interesantna za oblasti teorije grafova) teorije mreža i teorije sistema i može dati originalne naučne rezultate koji bi bili od koristi za rešavanje problema tih oblasti". Čini mi se, na primer, više odgovara sledeća formulacija: "Tema teze se odnosi na teoriju mreža i teoriju sistema a, s obzirom na činjenicu da je upotreba matematičkog aparata teorije grafova bitna pri obradi ove teme, mogu se očekivati eventualno i originalni doprinosi u teoriji grafova, pored doprinosa u teoriji mreža i teoriji sistema".

Pošto sam ja jedini matematičar u Komisiji za prihvatanje teze doktorata iz elektrotehnike ja bih molio da izveštaj prvo potpišu ostali članovi Komisije i Vi jer ste tu naravno kvalifikovaniji. Ako teza bude sadržavala originalne matematičke doprinose onda bi moja uloga u Komisiji bila veća.

- 2 -

Molio bih da sa ovim pismom upoznate i ostale članove Komisije.

Moje zvanje je docent.

Šaljem Vam u pismu sve primerke izveštaja osim jednog koga zadržavam radi daljeg studiranja u medjuvremenu.

Mnogo pozdrava

Dragoš Cvetković

Department of Chemistry
University of South Carolina
Columbia, SC 29208
9 October 1978

Professor D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade Yugoslavia

Dear Professor Cvetković:

Thank you very much for the reprints of your articles.

My research director, Dr. Benjamin Gimarc, has just recently returned from the Rudjer Bošković Institute in Zagreb where he studied graph theory with Professor Trinajstić. He has become interested in the problem of isospectral and subspectral graphs. After examining pairs of subspectral graphs, we soon noticed that the rules of McClelland and Hall for factorizing the secular determinant did not apply to certain graphs with C_2 symmetry. At Dr. Gimarc's suggestion, I began looking for a new factorization rule, and the paper enclosed here resulted. I thought you might be interested in this result, even though it is not directly related to graph theory.

Again, thank you for your many interesting articles. I am looking forward to the release of your book in March.

Sincerely,

Susan D'Amato

Susan D'Amato



International Business Machines Corporation

Thomas J. Watson Research Center
P.O. Box 218
Yorktown Heights, New York 10598
914/945-3000

Fran Cvetkovic,

I have sent your page with Post to LAA,
but only today (I had not realized
that you ~~still~~ he wanted me to send it to
the editor). You or Michael should hear
soon from Hans Schneider, the editor.

Meanwhile I have (also) lost
the sheet you sent me ~~from~~ from your
bibliography. Could you send me another
copy? Thank.

Sincerely,

Alan Hoffner

October 13, 1978

Dear Dragos,

I spent last month in Moscow lecturing algebra and topology. Coming back in Prague, I have found your September 8 letter in my mail. Many thanks for your try to find an information about my article for the proceedings of the "Topološki simpozij". I shall be grateful if you write me after the return of Prof. Kurepa.

I agree with you in the high estimation of the Steged conference. When our discussion was interrupted by Prof. Sachs, I wanted to tell you that I regretted my decision last evening. This state has still lasted up to the present date.

Thanks for the paper on graph equations. I am too busy at present with my lecture for the Dortmund Conference from Computer Science (because up today, I have been fully concentrated on topology, writing a paper for DAN) but after my coming back from Dortmund (it will be in half of November) I should like ^{to look} on graphs again and I also believe that a mathematical cooperation will follow.

Probably, you have not yet got the preprint with my Szeged talk. I sent it to Gräter just after my return from Szeged, but up to now, he has not confirm that he received it. Thus, I know nothing about it. Perhaps, he will write or send something later.

Looking forward to hear from you

Yours sincerely

Vera

Beograd 16.10.1978.

Dragi Ivane,

Sajam Ti rasne materijale sa jednim nizom molbi i predloga (materijali su složeni u fascikli novim redom):

1° Spisak rodova u kojima su citirani moji rodovi i spisak mojih knjiga i rodova. Molio bih Te da upotpuniš taj spisak novim stvarima (ako Ti je nešto poznato) a posebno i brojeve 41°, 42°, 78°, 80°, 81°, 82°, 103°, 107° i upotpuni podatke. (Zadržim broj mači da su podaci kompletirani). Podatke unesi rukom u taj spisak i pošlji mi novost. Spisak mojih rodova možeš da zadržiš.

2° Spisak ~~od~~ Graovienih i Trojih rodova u bibliografije za knjigu o speltinima (6 strana) i spisak literature (added in proof; 8 strana od toga 3 strane su fotokopije rukom pisanej teške), Graov-
čovo pismo. Molba je: kompletirati podatke i dati spisak novih rodova iz bezije gde se eksplicitno govori o speltinima profora (iako isto novo naru matematičkih rezultata) ili se implicitno govori o speltinima a ima nekih matematičkih interesantnih stvari. Možda bi se mogao uključiti i paroli od Trojih novih rodova koje nisu uključeni. Spisak Graovienih i Trojih rodova možeš da zadržiš a dodatni spisak i Graovčovo pismo mi vrati.

3° Sada pišem knjigu o matricama 20 kaji sam Ti
ranije poslao plan. Namjeravam do pisane verzije do
kraja godine. Jo bih te zamolio a to bi mi bilo velika
pomoć da napišeš glavu 12 - Primene u hemiji. Obim
bi trebao da bude 10-20 kucanih strana. U obzir
naravno dolazi Hüdelerova teorija udjeljivosti i stvari o
energiji. U prethodnim glavao bi bile date osnovne stvari
o spektru udjeljivosti i Sochroovu teoriju (kao što sam
izložio u Austriji). Stvari o γ (b) dolaze u obzir. Dolaze
u obzir i nešto osnovno drugo iz hemije gde se liste
matrice i determinante iz izdavanja veće sa grafovima
Kupiga se polaziti od prvih stvari (tako da bi mogla
do postići kao udibenik) ali bi trebalo da sadrži i pravo
neelementarno (možda bez dozvole). Ako pristaješ na ovaj
predlog mogao bi da skiciraš stvari na nekoliko
stranica pa da ja to pogledam pre nego što napišeš
definitivni tekst.

Da li sam Ti dao neke moje beleške (primere) u
vezi sa knjigom? Ako me tome nisi ništa rekao
u. Taj materijal a preći na glavu 12.

4° U toku novembra - decembra mogli bi i neki
sajednički projekt da uvedimo: specijalne funkcije
ili benenoidni grafari. Ako imao neki predlog ja mi
o tome.

Mnogo pozdrava

Bojko



Elektrotehnički fakultet Sarajevo

71113 Sarajevo, Toplička bb. Žiro račun: 10103 - 603 - 5759

Broj: 09-1-2 657/78
dana: 17. oktobra 1978. godine

Doc.dr Dragoš Cvetković
Elektrotehnički fakultet u Beogradu
11000 B E O G R A D
Bulevar revolucije 73

Dragi kolega,

Zahvaljujemo Vam se na primjedbama na tekst o podobnosti za doktorsku tezu. Kao što ćete vidjeti mi smo ih usvojili i potpisali smo referat .

U prilogu vam ga dostavljamo i molimo Vas da potpišete sve primjerke i da nam ih vratite.

Unaprijed se najljepše zahvaljujemo.

Sa najljepšim željama,

Brana Peruničić

Brana Peruničić



D.Cvetković

24.10.1978

Prof. Dr. W. Imrich
Institut für Mathematik
Montanistische Hochschule
A - 8700 Leoben, Austria

Dear Mr. Imrich,

I would like to invite you to deliver a lecture on a subject of your choice from your field of the work, in the Mathematical Institute, Beograd, during this autumn. Lectures are usually delivered on Fridays and I would propose November 17, or November 24, but any Friday in December except December 1 or December 29 would be O.K. Mathematical Institute will be able to give you about 1200 din which would be enough for the hotel and for the food for two days. Of course, my wife and me shall be happy to see you at our home.

Please let me know as soon as possible whether you can accept this invitation and which kind of the room should I look for you. Of course you should send the title of your lecture which is supposed to last about one hour.

With kind regards,

Yours sincerely

Dragoš Cvetković

Beograd 23.10.1978.

Draga kolegice Peruničić,

Hvala na pismu od 17.10.1978. Sve primerke izveštaja sam potpisao i šaljem ih natop u ovom pismu.

Što se tiče komisije za ocenju ovog doktorata, kada bude gotov, moj je utisak da bi Prof. Mirko Milić bio komisiji od mene. No, naravno, ja se slažem da budem u toj komisiji, utoliko se tako planira. U tom slučaju bih molio, da bih dobio u vremenu, da mi koleginica Jovanović pošalje separate radova na kojima se teza bazira a po mogućnosti i delove teksta buduće disertacije.

Molio bih i Vas (nesrećno od koleginice Jovanović) da mi pošaljete separate Vasih radova koji su u vezi sa teorijom profora.

Šaljem Vam i primerak moje nove knjige "Diskretne matematičke strukture" u nadi da će Vas i one interesovati.

Muzgo po zdravo

Dragoš Veković

Beograd 30.10.78.

Dragi Zoran,

Šefer Ti materijale koje si zaboravio kod mene.

U međuvremenu sam razgovarao sa prof.

Vasićem o Tvom dobitku. Stojili smo se do podnesak prijavi. To naravno ne znači da neće biti opozicije van Katedre za matematiku ali tuda je sve na najboljem putu.

Ja ću oih dva razmisliti o temi koje bi bile pogodna za Tebe a i Ti sigurno razmisliš. Naravno, to bi trebalo da bude u vezi sa onim što si do sada radio ali tome treba dodati jedan novi kvalitet. Predložem da se ukloni sastavom i porazgovaramo o tome.

Mu ope pozdrava

Dragoš

Institut für Angewandte Mathematik

Montanuniversität Leoben

A-8700 Leoben

Vorstand: o. Prof. Dr. Wilfried Imrich

Leoben, 1978-11-03

Doz. Dr. Cvetković

Faculty of Electrical Engineering

University of Belgrade

P.O. Box 816

11001 Belgrade

Dear Mr. Cvetkovic,

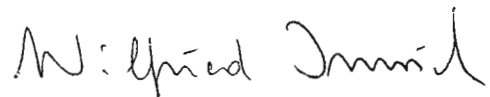
Thank you very much for the invitation to deliver a lecture in Belgrade. I should very much like to come, but unfortunately my time-table is so tight until the end of this year that I should like to postpone the visit. As I will not go to America early next year, as I had originally planned, I would suggest a date between April 9 and May 12, 1979. This coincides with our Easter vacations.

The Symposium in Rein was well received at the mathematics community in Graz and I want to thank you very much for your participation. Concerning the Proceedings of the Symposium I am waiting for two more manuscripts. Hopefully they will arrive soon.

This Wintersemester I am teaching a course in graph theory at the University of Graz again and I am liberally taking advantage of what I learned from you and Gutman at the Symposium.

With best regards,

Sincerely yours,



Wilfried Imrich

D.Cvetković

10.11.1978

M. Pouzet
Department of Math. Univ,
Claude Bernardd (Lyon)
43, Boulevard du 11 novembre 1918
F - 69621
WIllenrbanne

Dear Mr. Pouzet,

I am most kindly asking you to forward to my address a
preprint of the paper

NOTE SUR LE PROBLEME DE ULAM, J. Combinat. Theory,

Thanking you in advance,

Yours sincerely

D.Cvetković

Скопје, 1978г.
15. XI

Почитувани професоре,

Пред некој ден бев дома и сучу-
пајно го најдов писмото преф бра-
та, што Ве еште го испратиле.
Чувствите беа такви да морав со
бегулата да ја преминам средината.
Нико пишане скоро 2 години до-
спутаа на Риста, ја симкаа не-
можам да се сретнам. Се кажеви
сеште дека е најмногу нејде каде
ожаа 1972 г. во ЈНА и дека ќе
се врати.

Но кога поробото ќе разми-
сат штоам нешто не ме смрнува.
Професоре, иште им е Мирја-
на, штоа Угор, а ќерката
Тулјана — Шокаровски.

До денес ништо не сум
примла ш.е. не сум го добила

Beograd 22.11.1978.

Poštovani profesore Devidić,

Obaveštavam Vas da ste na sednici Naučno-nastavnog veća Elektrotehničkog fakulteta imenovani u komisiju za pregled doktorske disertacije Slobodana Simića pod naslovom "Prilozi proučavanju operacije mod grafova". Naravno, Vi ćete o ovom biti i zvanično obavješteni.

Pošto sam ja bio u kontaktu sa kandidatom tokom izrade rada i pošto je kandidat predao temu još pre više od mesec dana (čakalo se na sednici veća da odredi komisiju), ja sam u međuvremenu napisao izveštaj o temi koji bi trebalo da potpišu članovi komisije. Taj izveštaj vam šaljem zajedno sa jednim primerkom teme. Molio bih da mi što pre javite da li prihvatate učešće u komisiji. Ako ste u mogućnosti da to prihvatite onda bih Vas molio da pročitate temu i izveštaj i da ga potpišete (ili predložite izmene, ili napišete drugi izveštaj). Naravno, Vi biste bili predloženi i u komisiju za usmenu odbranu što bi zahtevalo još dolazak u Beograd. Termin usmene odbrane se sada ne može predvideti jer potpisani izveštaj treba da stoji u biblioteci mesec dana a onda da ide na sednicu veća koje se odnovo približno jedanput mesečno.

Ja bih Vas molio da se pribavite nešice u ovim komisijama.

Je sam Vam pre izvesnog vremena poslao jedan primerak moje nove knjige "Diskretne matematičke strukture". Nadam se da ste dobili tu knjigu.

Mnogo pozdrava

Dragi lektorice'

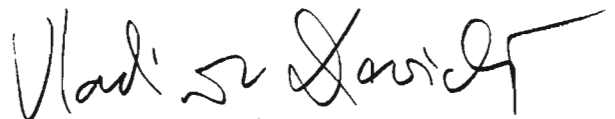
27.11.78

Dragi kolega Cvetković,

U prilogu vraćam Vam potpisani referat s ocjenom doktorske disertacije S. Simića. Nemam nikakvih primjedbi na referat pa sam ga potpisao kakav jest.

Sto se tiče obrane te disertacije, moram Vas nažalost zamoliti da me ne stavljate u komisiju: naime, ja sam već više od šest mjeseci bolestan, u bolnici, na bolovanju itd. pa mi još predvidivo duže vrijeme neće biti moguće putovati u Beograd.

Mnogo srdačnih pozdrava Vama, profesoru
Mitrinoviću i Vašim kolegama



Vladimir Devidé

41.000 Zagreb

Vinogradska 10

Belgrade, November 27, 1978

Dear Mr. Gurnich,

Thank you for your letter of November 3.

I am sorry that you were not able to come to Belgrade in this year. On the other hand, your visit next April or May will be more pleasant since the weather will certainly be better than now, at the end of the year.

In the March, next year, I shall write again to you and I shall propose a term between April 9 and May 12 for your visit.

I am glad to hear that Butman's and my visit to Reim were of some use. I hope you had no troubles with my manuscript and I am apologizing once again for having not prepared it in a better form. This was because after my returning from Winnipeg I had to settle many things (which had been accumulated during my stay there and later). Only in the last couple of weeks I managed to settle majority of them and started to work normally.

With kind regards

Yours sincerely
Dopov' Cvetkovic'

Beograd 27. 11. 1978.

Poštovana drugice Šokarović,

Hvala na pismu od 15. 11. 1978. Izvinjavam se što nisam odmah odgovorio; ovi dva su bio zaneset poslovanja.

Dobro je što ste posle dužeg vremena našli moje pismo. Ja sam pisao i dr Šurležarović ali mi ni ona nije odgovorila, čak na dva ili tri pisma. Da li znate šta je sa njom?

U ovom pismu vam šaljem dva Ristinina pisma. To su, čini mi se, poslednje ili među poslednjim. Šaljem vam i tri primerka njegovog matematičkog članka. Ja imam još nekoliko primeraka a ostale primerke (20 ili 30) sam još ranije poslao dr Šurležarović.

☺ Za Ristin objavljene članak sam primio 1000,00 dinara i taj novac vam šaljem doves poštomskom uputnicom. Molim vas da primite taj novac jer on pripada Risti.

Mnogo pozdrava

Zorica Beković

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

Nov. 28

Dear Professor Cvetkovic:

Thank you for your letter concerning your monograph. I have checked the second author and he does appear as "M. Doob".

Our book "Graphs & Digraphs" will appear in January, 1979 (Prindle, Weber & Schmidt).

Sincerely,

L. Lesniak - Foster

Dr.

14/dec.178

Drago's Cveticovic
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade - Yugoslavia

Dear Professor:

Thank you very much for your letter I've gotten on late november. The papers I would like to have are your doctoral thesis and others of survey type. I had no idea that you have written so much on spectra.

Concerning spectra can you tell me any special ^{topic} that could be fruitful on research? Which are the main trends that actually are followed by researchers?

Do you have any worked related with self complementary graph or with numerical valuations of the vertices. Also I would like to know about the connections between the spectra and the group of automorphism of a graph. Here I enclose to you a note on self complementary graphs. It is a very simple result but it could be useful as an information.

Well, I'll be waiting your news. Have a good time.

Who else is working in combinatorics at Belgrade?

With all the best wishes

Stjepan.

D.Cvetković

20.12.1978

Prof. A.J. Hoffmn
Thomas Watson Research Center
P O B 218
@orktown Heights
New York

Dear Mr. Hoffman,

Michal Doob informed me that our paper has been accepted recently for publication in Linear Algebra and Applications. I appreciate very much your help in this matter.

Now, I am sending you again a few pages from the bibliography, of the book "Spectra of graphs" with the request to check the correctness and completeness of the data related to your papers. There will be an appendix added in proofs; so there is possibility to mention very new papers or even papers in process of publication. Since we expect proof readings next month, I would ask you to reply as soon as possible.

With best wishes for the New Year.

Yours sincerely

Dragoš Cvetković

PRAHA
Panorama
Trávník a Vltava

P. F. 1980



VYDAVATELSTVÍ PRESSFOTO PRAHA

Veľa Trnava

Foto Milan Racek
Tisk Severografia Děčín



Prof. D. Crebbor

Dept. of Electrical Engineering
University of Beograd

Beograd

11001



POB 816
Yu goslavia

Szeged
CereA

Greetings
from Szeged!

V. Trubková

January 1979

Jt. - 1245/782.



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Ára: 3,50 Ft



Dr. D. Coelkovic

Dept. of Electrical

Engineering

University of Beograd

11001 Beograd

POB 816

Yugoslavia

TARJETA POSTAL

Dear Professor:

I'll be very grateful if you if you send me reprints of your notes concerning water use and supply. It's a very hard for us to get the references because we don't have above many journals coming here. Please write to:

SERGIO ROIZ
INSTITUTO DE MATEMATICAS
UNIVERSIDAD CATOLICA DE VALPARAISO
VALPARAISO CHILE

I would like to get in contact with S. Agarkishiera and Bullika I guess they are russian. They have written in neighborhood of getting in a paper. Please give me their address if you have them. Thank you I have heard Will ell the best.

¹³⁹ Valparaiso, October 18, 1979 Sergio

ARCHIVO STORANDI



TOGRAFIA MODERNA SA VALPARAISO - CHILE



DR.
Dragos Cvetkovic
Lamaršimova 44
11000 BEOGRAD.

YUGOESLAVIA



Greetings from the
Leoben conference

Chus Erdos
Frau

Wilfried Jund
Jeli Jund-Štore
Rudolf Stalín

Karel Skre
E. Bon v. Dieber

Ing. tey Reichel
W. Maier



DR DRAGOŠ
CVEKOVIC

1000 BEOGRAD

LAMARTINO VA 44

JUGOSLAVIEN

Lufaufnahme Luftbild Ges. m. b. H. freigegeben vom BM 1 LV mit Zah. 913 RAH/B/72

gut... besser... **Gösser**

НОВОРІЧНЕ ВІТАННЯ!
НОВОГОДНЄ ПОЗДРАВЛЕННЯ!
Автор *І. Дерзидов*.

© «Радянська Україна», 1979. Київ.

80205—046

Н М227(04)—79—16—79 3214511. БФ 12377. З. 0816. Т 1 540.000.

Ц. 5 коп.

Пересиланню поштою у відкритому вигляді не підлягає.

Beograd 15.1.1979.

Dear Věra,

A few days ago Mr. Grätzer sent me a copy of your paper "Cardinal multiplication of relational structures" Thank you very much for it. My earlier impression is confirmed now; I have some interest in at least one part of your work. Of course, I must study now the whole thing.

Please find enclosed a copy of "A bibliography of graph equations" which will give you an impression (together with the paper I sent you earlier) about the kind of problems I am interested. Concerning the references to your topics, I know now more; only a few such references are included in the bibliography, but probably not too many more belong to such a bibliography. The bibliography will appear in J. Graph Theory.

I am enclosing also an announcement for an International Summer Seminar on Artificial Intelligence. I do not know how familiar are you with this branch of computer sciences but I think any mathematician can find an interest in such seminars. In addition, I believe Dubrovnik, where the seminar will be held, belongs to any choice of nicest places in the world. I have not yet fixed my plans for this year

- 2 -

but now it seems very likely to me that I will participate this summer.

With kind regards

Yours sincerely
Gregor Bethoric

Beograd 15.1.1979.

Dragi kolege Bataželj i Pisanski,

Kod mene se nalazi na recenziji Vaš rad "On partially directed Eulerian multigraphs" koji ste poslali za Publ. Inst. Math. (Beograd). Iskreno želim da bude sednica redakcionog odbora i ja treba da predam recenziju. Pošto su se pojavile neke nejasnoće a da bi dobili u vremenu odlučiosam da se kama direktno obratim.

Najpre bih predložio da se rad skroti u sledećem smislu. Dokaz teoreme 1 sa str. 3 bi trebalo izostaviti jer je to poznata stvar. Tehnički opis algoritma na str. 13-15 bi trebalo znatno skrotiti: ako ne sasvim izostaviti.

Na str. 9 nije mi nešto bilo jasno po molim da mi pomognete. U redu 4-5 stoji:

Case A: e belongs to the stream s .

$c(X)$ and $c(Y)$ are either both positive or both negative.

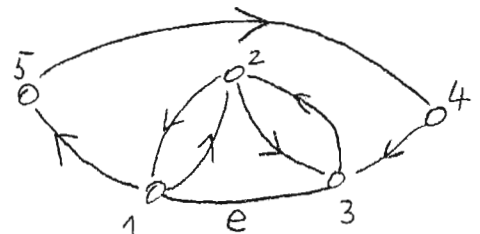
Meni se čini da ovo ne može biti ispunjeno. Nebo je prema

sluči: $X = \{1, 2\}$, $Y = \{2, 3\}$,

$A = \{2\}$, $B = \{1\}$, $C = \{3\}$, $D = \{4, 5\}$.

Dalje je $c(X) = -1$, $c(Y) = 1$. Medutim

$e \in (B, C)$.



Mišao je ovde nešto previdam po molim da mi objasnite.

Znam i nekih sitnijih tehničkih primedbi.

Na više mesta sam primetio izraz "isn't", u
načinu tekstinom normulno je do se piše "is not".

Na str. 4-5 se koriste oznake $c(v)$ i $c(u, v)$, koje
nisu definisane (može je najbolje smisliti jasno).

Na str. 9 zadržati red: "Questo "This concludes
the proof of the theorem" čini mi se da je uobičajenije
"This completes the proof of the theorem".

Ukoliko usvojete ove primedbe i razjasnite
stavove na str. 9, predložio bih da me isticajni zve-
nični izveštaj prepravite rukopis u ovom smislu
i pošaljete ga Matematičkom institutu, Beograd.

Mnogo pozdrava

Dragoš Beković,

11000 Beograd, Lamartinova 44

HOTEL

„TVRĐAVA” — VARADIN

NOVI SAD TELEFON 46-393 — TELEX 14310 — JUGOSLAVIJA



18. siječnja 1979.

Poštovani Prof. Wetkoviću,

Nedavno se oče vama je Gutmanac pričao
o mom prijedlogu za organiziranje jugo-
slavenskog skupa o grafima u znanosti
i primjeni. Zanimam me više mišljenje
o tome, kao i koliko bi mogli sudjelovati
u organizacijskim stvarima. Jačim od
sljedećih projekata Beogradu, isključit ću
za ~~projekat~~ razgovor s vama, a da to da
bilo vas molio oče biti najestije prenesite
Gutmancu, jer ću se polovinom februara vratiti
s njim u Zagreb.

Srdelica vas pozdravlja
Ante Gračanin.

Carola Dengel
Brahmsallee 16
2 Hamburg 13
Bundesrepublik
Deutschland,
den 22.01.1979

Mr.

Dragos M. Cvetković,
Katedra matematike,
Elektrotehnički fakultet
11001 Beograd, poštanski fah 816, Yougoslavie

(If Mr. Cvetković is not present at the institut, I would be very thankful, if someone else replies to my letter. In this case I would like to ask the editorial staff of the series of mathematics and physics (Serija: Matematika i Fizika, Publikacije Elektrotehnickog Fakulteta Univerziteta u Beogradu).

Dear Mr. Cvetković !

I, Carola Dengel, am a student of mathematics at the university of Hamburg in Western Germany. At present I am at work at my examination paper on Graph-Theory. The subject of my composition - given by Prof. Rudolf Halin - is: "Which Graphs Have Integral Spectra ?", starting with the papers of F. Harary and A.J. Schwenk in "Graphs and Combinatorics" (ed. R. Bari, F. Harary), 1964 . Among the papers i studied was your publication "Cubic Integral Graphs", Univ. Beograd. Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No. 498-No. 541 (1975), 107-113, which I fortunately received from Prof. Collatz in Hamburg.

Now I am interested in further results on the discussed topics and open questions. I like to know, if you published any further results in other papers you wrote later on. I would be very thankful to you, if you send me these publications of yours, because I cannot get the series of mathematics and Physics of Beograd university, neither in Hamburg nor in Western Germany. For the same reason I ask you to send me the publication: Cvetković, Gutman, Trinajstić: "Conjugated molecules having integral graph spectra." Chem. Phys. Letters 29 (1974), 65-68. Would you be so nice as to give me a hint, if there are any other publications on the topic of integral graph spectra known to you ?

Please excuse my bad English, but I got out of practice except for reading English mathematical papers.

With best regards

Carola Dengel

ZAJEDNICA VIŠIH ŠKOLA SR SRBIJE
STRUČNA SEKCIJA ZA MATEMATIKU

B E O G R A D
27. marta 149/III
Telefon: 435-517

Broj: 67
22. januar 1979.

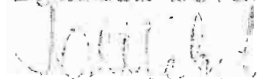
Poštovani profesore,

U prilogu Vam šaljemo tri primerka Zbornika predavanja, koji je izašao sa zakašnjenjem.

Još jednom koristimo priliku da Vam se zahvalimo na uspešno održanom predavanju.

SEKRETAR SEKCIJE,

Ljubica Šević



Ljubljana, 23.1.1979

Dragi profesor Cvetković,

hvala na Vašem pismu u vezi našeg rada "On partially ...".
Slažem se (i u Tomino ime) sa svim Vašim primedbama i
predlozima. U vezi algoritma pokušat ću da izradim skraćenu
verziju tog dela rada. Pošto je kolega Pisanski u Americi, a
vreme je kratko, varijanta sa potpunim izostavljanjem algoritma
predstavlja vremenske poteškoće.

U vezi nejasnosti na strani 9:

kod prevođenja sa slovenačkog na engleski izostalo je (možda
i namerno, jer je intuitivno jasno) šta znači

... in a prescribed way ... (str 6/red 2, str 7/red 21)

To znači:

ako je $c(X) > 0$ | $P(X) = 0$
je od skupa X (početak spojnice je u X a kraj u \bar{X})
ako je $c(X) < 0$ | orientacija neusmerenih spojnica je
prema skupu X (početak spojnice je u \bar{X} a kraj u X)

Case A na strani 9 odnosi se na dokaz pomoću reductio ad
absurdum {što nije eksplicitno naglašeno, iako je razvidno
iz forme dokaza

Suppose an orientation of e (početak strane 9)

.....

But $e_s = 0$ contradicts ... (kraj case A; i slično case B)

} koji počinje na strani 7 u zadnjih pet redova.

Do narušenja uslova $\forall X \subseteq V : P(X) \geq 0$, kod orientacije
spojnice e može doći jedino ako skup X i skup Y traže
suprotnu orientaciju. A to su tačno primeri iz Case A i
Case B. Kako je pokazano oni nisu mogući. U slučaju tipa Case A
(primer iz Vašeg pisma) uvek je $c(X).c(Y) < 0$.

Još jednom hvala i mnogo pozdrava

Batagelj
Vladimir Batagelj

P.S. Ispravljenu verziju poslat ću na Publ.Inst.Math. u
roku nedelje dana.

Beograd 29.1.1979

Draga kolegice Perunić,

Nedavno je kolega dr Ante Graovac (hemikar, Institut "R. Bošković", Grupa za teorijsku hemiju, 41000 Zagreb) predložio da se održi jugoslovenski simpozijum o teoriji profora i njenim primenama (u raznim disciplinama). Kolege Milic, Horvat, Jovanović i ja smo u principu saglasni ali je kolega Jovanović spomenuo konferenciju koje se volio održati negde kod Vas (no Jahnini?) i da je možda to pravo mesto gde bi se skupili ljudi koji se bave teorijskim profesorima. Molio bih Vas da me obavestite o ovoj konferenciji radi eventualnog učešća. Predložio bih da informacije pošaljete i kolegi Graovcu a takođe i dr Joanu Gutmanu (Prirodno-matematički fakultet, Zavod za hemiju, R. Domanovića 12, 34000 Kragujevac). Ja bih mogao da obavestim i dr Slobodanu Simića (on jer nedavno došao iz oblasti teorije profora). Takođe bih Vas molio za mišljenje o inicijativi kolege Graovca, tj. da li je potrebno nešto drugo organizovati pored Vaše konferencije.

Ima li nešto novo u vezi sa doktoratom kole-
gice Jovanović-Dolčić. Imate li vi nekih novih
interesa tih rezultata in teorije profusa?

Srodnici pasdori

Imaš nešto bolje?

Beograd 29. 1. 1979.

Dragi kolego Gotovac,

Hvala na pismu od 18. 1. iz Novog Sada.

Kolego Gutman mi je tokom govora o ideji da se organizuje međunarodna konferencija o grafima. Ja u vezi to podizavam a iz razgovora sa prof. M. Milićem (koji je pisao o grafima) izlazi da i on to podržava. Međutim, kolega doc. A. Jovanović (koji se bavi algoritmima teorije grafova) skrenuo mi je pažnju na jedan simpozijum koji se svake godine u martu održava na Jahorini kod Sarajeva. Naslov je "Informatika" ali postoji sekcija za grafove. Prošle godine je to prošlo nezapaženo a i ove godine ne znam koliko će biti (recimo, na primer, je li sam bio obavešten o tome). Organizator tog skupa je prof. dr. Brana Peruničić, 71000 Sarajevo, Nemanjina 61. Njeni saradnici zajedno sa dr. Jovanovićem sa ovog fakulteta su prošle godine učestvovali. Jovanović smatra da bi i hemičari bili dobrodošli na tom simpozijumu.

Moje je mišljenje da se povežemo i sa B. Peruničićem da vidimo čemu mišljenje. Ja ću joj odmah napisati.

pedagogično gde ću spomenuti Vašu ideju.

Uoči, uolilo bi se u Beogradu nešto organizovati
zovelo je verujem da bi se to moglo izvesti
na Elektrotehničkom fakultetu.

Mnogo pozdrava

Josif Beković

Dragi profesor Cvetković,

šaljem Vam prepravljenu verziju članka "On partially..."
Nadam se, da je u redu. Dva izvoda poslao sam i na
Matematički Institut.

Mnogo pozdrava


Vladimir Batagelj

Ljubljana, 30.1.1979

Becquod, February 2, 1979

Dear Miss Dengel,

Thank you for your letter of January 22, 1979.

Please find enclosed herewith a copy of the paper you wanted together with another paper of mine (with F.C. Bussemaker), where the problem of cubic integral graphs is completely solved. I would draw your attention also to the paper: A.J. Schwenk, Exactly thirteen connected cubic graphs have integral spectra, Theory and Applications of Graphs, Proc. Kalamazoo, 1976, (ed. V. Alari, D. Lick), Springer Verlag 1978, Lecture Notes Math, 642, 516-533. In this paper the same problem has been independently solved.

Next step in these investigations would be to find all non-regular, (connected), integral graphs with the largest eigenvalue 4. The task of finding integral regular graphs of degree 4 would be probably much harder.

If you are interested in graph spectra you certainly would like to know that in a few months the following monograph should come out: D. Böhric, M. Doob, H. Sachs, Spectra of graphs, Deutscher Verlag der Wissenschaften - Academic Press, Berlin - New York.

If I can help in any way please feel free to write me again.

With kind regards

Yours sincerely
Dagmar Böhric



The University of Michigan

DEPARTMENT OF MATHEMATICS

ANN ARBOR, MICHIGAN 48109

(313) 764-0335

February 6, 1979

Professor D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P. O. Box 816
11001 Belgrade - Yugoslavia

Dear Dragos:

Thank you very much for your letter of 12 January which just arrived. I'm delighted to have your revised bibliography of graph equations and I am sure it will be useful. I have become very interested in this field because of the visit for one year of Professor Akiyama from Japan who is also working in this interesting field.

I looked at my schedule again and find that the first time that I can possibly come to Belgrade again will be in early September, 1980 while traveling from Cambridge to Singapore. I hope that this will come true and look forward to seeing you again. Give my best regards to Dr. Simić; also to your wife

Yours cordially,

Frank H.

Frank Harary

FH/cp



UNIVERZITET »SVETOZAR MARKOVIĆ«

PRIRODNO-MATEMATIČKI
FAKULTET

34000 K R A G U J E V A C

Radoja Domanovića 12, p. fah 60

Telefon: 034/60-251

Broj _____

_____ 19__ godine

Kragujevac, 28. II 1979.

Dragi Dragoš

Šaljem Ti separate dva moja nedavno objavljena rada. Molio bih Te da jedan separat rada "Contribution to the problem ..." ubaciš u materijale ~~u~~ uz moj zahtev za izradu teze, a koji se nalazi na ETF.

Srdacni pozdravi
Ivan

Kragujevac 10. III 1979

Dragi Dragos'

Šaljem Ti tražene reference. Međutim
rad Jacimirskog, a takođe ni celu fasciklu sa
materijalima za Tvoju knjigu, ne mogu da
nađem. Pretpostavljam da je sve to kod Tebe.
Molim Te zato da potražiš moju fasciklu, jer
mi je veoma važno da dođem do rada Jacimiskog!
Javi mi da li si je našao!

U Pravopisu se dozvoljavaju obe
varijante: element i elemenat.

Srdacni pozdravi
Ivan

ŠKOLSKA KNJIGA

Z A G R E B

Masarikova 28

Poštovani drugovi,

Potpisnici prikaza knjige "Algoritmi" (prilozi se daju u prilogu ovog pisma) su slobodni da Vam predlože da se spomenuta knjiga prevede sa mađjarskog jezika i objavi u Vašoj ediciji "Moderna matematika". Potrebni podaci o knjizi se nalaze u priloženom prikazu.

Ukoliko se odlučite na objavljivanje ove knjige, kolega Dr JOvan Gurman iz Kragujevca je izrazio spremnost da u slučaju potrebe prevede ovu knjigu ili bude stručni recenzent prevođa. On bi ove stvari mogao da obavi bez obzira na to da li se knjiga prevodi na hrvatsku ili sprsku jezičku varijantu.

Sa drugarskim pozdravom

Beograd, ³6.3.1979.g.

Dr Dragoš Cvetković
docent Elektrotehničkog fakulteta
u Beogradu

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Dr. Dragoš Cvethoric
Lauventinova 44
11000 Beograd
YUGOSLAVIA
EUROPE

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HIGH WATER MARK
Gettysburg, Pennsylvania
This unusual and artistic memorial marks the end of Pickett's Charge, one of the most gallant assaults in history.

Staff photo by S. Fredman

4. Mart 1979

Puno forebava
sa putorenje te
Pennsylvaniji. Ovdje
stuchirani su Ph.D.
Nobum, poschovite mi
Slobodara!
Kun
Tome Pisavski.

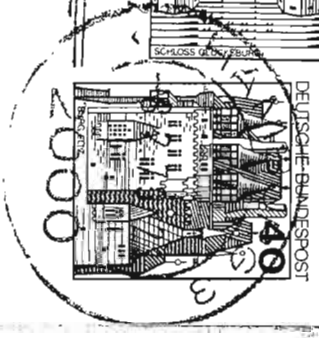
Absender

Canela Dangel

Brakmallee 16
(Postfach oder Straße und Hausnummer)

2000 Hamburg 13
(Postleitzahl) (Ort) BRD

helpful to me!
think this subject can
now become (even)
more interesting!
With kind regards,
yours sincerely
Canela Dangel



10
DEUTSCHE BUNDESPOST
SCHLOSS GLÜCKSBURG
10
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40
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Postkarte

Mr. D. M. Cvetkovic

Heinrich Mathematik

Elektronische Fakultät
(Postfach oder Straße und Hausnummer)

11001 Beograd
(Postleitzahl) (Bestimmungsort)

postanski fak 816

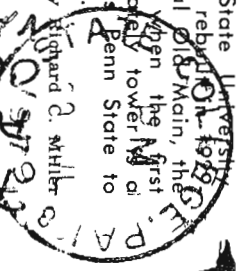
Hamburg, Febr. 6, 1979

Dear Mr. Czekanowicz,

Thank you very much indeed
for your prompt answer to my
questions about papers on integrated
graph spectra and for your hint
to the publications of Schwenk's
and of Jovan and Pohl⁶ and Sachs'
monographs; all this will be very

OLD MAIN, The Pennsylvania State University building was rebuilt on the original site in 1859. The stately tower is a familiar landmark and represents thousands of alumni and friends.

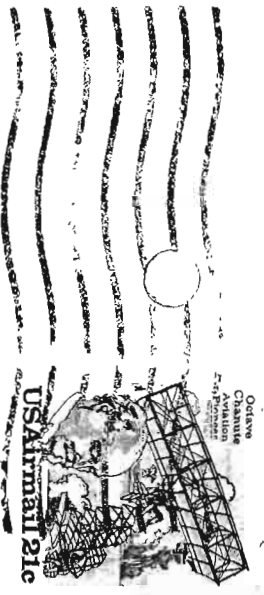
Color Photo by Edward G. Miller
 PAID
 POST TO SE NOS BORAVAK
 Gdje blizi kraju, opet
 van se javljah [kuci
 stizem u pocetku septembra]
 NADAN SE, DA CE NASA
 SARADNJA KORACNO
 NAZIVATI.
 MOLIM, POZDRAVITE MI
 SLOBODAN SIMICA!
 SRACNO VAS POZDRAVJA
 TOMO RISAUSKI
 Tol 15



State College, 19. July, 79

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AMSTERDAM / HOLLAND

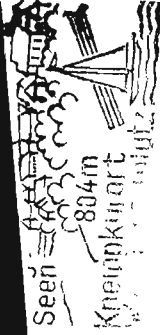
Herengracht
Amsterdam toont ook des avonds de
schoonheid van zijn grachten
Also at night, the canals of Amsterdam offer
a magnificent spectacle
Aussi le soir, les canaux d'Amsterdam
offrent un beau spectacle
Auch abends gewähren uns die Kanäle
einen idyllischen Blick

© Euro Color Cards / Steeuwijk / (01833) - 19 41

Füssen, W. Germany
30/1/79

Dear Dragoš,

I hope this reaches you
before I do. If all goes well
we will be arriving in
Belgrade at 15.25 on 12.7.71
Feb. (by BA 704 from London).
So you can expect to see us
late on Monday 12/2 or early
on Tuesday 13/2. We leave
for Melbourne on Thursday 15/2.
See you soon regards Brenda & McKay



8958

Prof. Dr. Dragoš CVETKović,

LAMARTINOVA 46,

BELGRADE,

YUGOSLAWIEN

CO 719

D.Cvetković

26.3.1979

Prof. B.E. Eichinger
Department of Chemistry
University of Washington
Seattle, Washington, 98195
USA

Dear Professor Eichinger,

Thank you very much for your letter of March 8, as well as for your reprints.

I would appreciate very much if you keep me informed about your work related to graph spectra also in the future.

Yours sincerely

Dragoš Cvetković

27.3.1979

Prof. J.J. Seidel
Department of Mathematics
Technological University of Eindhoven
POB 513
Eindhoven
The Netherlands

Dear Mr. Seidel,

Except for exchanging New Year Greetings, I have not written to you already for a long time. It was due to my business in writing a new book: Combinatorial matrix theory (with applications to electrical engineering, chemistry and physics). The approach is via graph in the same style as in that paper of mine on graph theoretical definition of a determinant, which has been translated into Dutch. Now, I finished the manuscript consisting of 350 typed pages in Serbo-Croatian. I have an arrangement with Doob to write a joint English version.

With the book on graph spectra we have less luck; again there will be some delay in publishing it. Now it is scheduled to come out in Autumn this year. On the other hand, good thing is that Academic Press joined the German Publisher.

Since Szeged Conference I have not done any research. (I only was invited to a Conference in Austria where I have delivered a lecture, the abstract of which I am enclosing herewith).

Now I am turning back to research and I have a proposal for you and Bussemaker. At the end of my stay in Eindhoven Bussemaker found 573 graphs (on 6, 7 and 8 vertices) with the least eigenvalue greater than -2 . These graphs were mentioned in my lecture in Szeged as well as in my paper with Doob which has been accepted for publication in Lin. Algebra and Appl. The 20 graphs on 6 vertices will play a role in a new paper of Doob and mine. Namely, we proved the following:

2.

a graph is a generalized line graph if and only if it does not contain (as an induced subgraph) any graph from a collection of 31 graphs. And 20 out of these 32 graphs are the above mentioned 20 graphs on 6 vertices.

Having all this in mind, I would propose Bussemaker to publish the data about the 573 graphs as a report of your University. In the case that you also think that this would be useful, I could give some suggestions concerning this report.

We have not yet decided about it, but we (I mean all my family) have an idea to visit the Netherlands privately this Summer. We could come only between July 20 and August 20. Have you already fixed your plans for holiday, i.e. will you be in Eindhoven in the mentioned period? What about Bussemaker and Haemers?

With kind regards,

Yours sincerely

Dragoš Cvetković

Prof. Dr. W. Imrich
Institut für Mathematik
Montanistische Hochschule
A - 8700 Leoben
Austria

Dear Mr. Imrich,

On behalf of the Mathematical Institute, Belgrade, I invite you again to deliver a lecture in the Mathematical Institute. I suppose that Friday, May 11th will be a good term to you. Another possibility would be Friday, 20th April, but in that case I would ask you to confirm immediately (by a cable) your coming, since the plan of lectures in a month is established at the end of the previous month. Fridays, April 27 and May 4 are not convenient because of the celebration of May 1. Other terms in May are also possible.

In the case you are able to come please send us as soon as possible the title of your lecture and requirements for hotel accommodation.

The Mathematical Institute will supply the fees about 1500 dinars for the lecture.

Professor Domicy sent me the reprints of my lecture on Stift Rein Conference. Please convey my regards to him.

With kind regards,

Yours sincerely

D.Cvetković



školska knjiga

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Dr DRAGOŠ CVETKOVIĆ
Elektrotehnički fakultet
Beograd
Bulevar Revolucije 73

VAS ZNAK I BROJ:

NAŠ ZNAK I BROJ:

ZAGREB, 28.III 1979

Poštovani profesore,

Primili smo Vaš dopis u kojem nam preporučate da prevedemo i štampamo knjigu ALGORITMI u biblioteci "Moderna matematika". Imajući u vidu potrebu za knjigom koja bi obuhvatila i ovo, danas sve interesantnije područje matematike, mi smo preveli knjigu Trahtenbrota ŠTO SU ALGORITMI koja je upravo ovih dana izašla iz štampe. Zahvalni smo Vam na prijedlogu kojeg ste nam uputili, i da nismo štampali ovu knjigu Vaš prijedlog bismo svakako prihvatili, sli razumjet ćete da ne možemo štampati dvije knjige iz istog područja u okviru jedne biblioteke. Knjiga koju nam preporučate mogla bi eventualno doći u obzir za prevođenje nakon što se rasproda knjiga ŠTO SU ALGORITMI, jer u biblioteci nećemo štampati ponovljena izdanja već knjige sličnog sadržaja iz istog područja matematike kako bi čitaoci ove biblioteke dobili čim potpuniji uvid u pojedino područje.

Uz drugarski pozdrav

Urednik

Zlatko Šponer

P.S. Prilažemo Vam kao poklon knjigu
Trahtenbrota ŠTO SU ALGORITMI

University of Technology
Address: Den Dolech 2
P.O. Box 513
5600 MB Eindhoven The Netherlands
Telephone (040) 47 91 11
Telex 51163

Dr. D. Cvetković
Department of Electr. Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 BELGRADE, Yugoslavia.

Your reference	Our reference	Date	Direct external dialling
	JJS/hr	April 9, 1979	472796
Subject			

Dear Cvetković,

Thank you for your letter of March 27, 1979, which describes your activities and your plans. Let me first react to your plan to visit Holland. Without any doubt the best time would be the week of July 23 - 27, since then both Haemers and Bussemaker will still be here; they will leave for vacation after that week. As for myself, I have a fixed visit to Toronto and Michigan from half May till half June, and to the British Combinatorial Conference, Cambridge August 12-17. Apart from these, our plans for this summer are still very uncertain. However, it seems that we shall be home in the week mentioned above. If nothing else comes up meanwhile, then you and your family may stay in our house during that week. If something does come up, then perhaps I may arrange that the university provides accomodation during that week. So, in one way or another, you may count on our hospitality during that week.

I passed on your proposal to Bussemaker, and we shall consider the matter soon. We are now very busy in writing our TH-report Tables of two-graphs, jointly with R. Mathon who is here until the end of April. You will receive "Strongly regular graphs, an introduction", to be presented in the Cambridge colloquium. Goethals and I just finished a paper on spherical cubature formulae. It is a pity that your book with Sachs and Doob has not yet appeared. And already you have written a new book! Willem now is writing his thesis, "Eigenvalue techniques in design and graph theory", which certainly will interest you when it is ready (probably this summer).

This was the news here. Let me know whether you can fit your plans in the constraints given above. It would be nice to meet again.

Kind regards from house to house,



J.J. Seidel.



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Dr DRAGOŠ CVETKOVIĆ
Elektrotehnički fakultet
Beograd
Bulevar Revolucije 73

VAS ZNAK I BROJ:

NAS ZNAK I BROJ:

ZAGREB, 28.III 1979

Poštovani profesore,

Primili smo Vaš dopis u kojem nam preporučate da prevedemo i
šampamo knjigu ALGORITMI u biblioteci "Moderna matematika".
Imajući u vidu potrebu za knjigom koja bi obuhvatila i ovo, danas
sve interesantnije područje matematike, mi smo preveli knjigu
Trahtenbrota ŠTO SU ALGORITMI koja je upravo ovih dana izašla iz
štampe. Zahvalni smo Vam na prijedlogu kojeg ste nam uputili, i da
nismo šampali ovu knjigu Vaš prijedlog bismo svakako prihvatili,
sli razumjet ćete da ne možemo šampati dvije knjige iz istog
područja u okviru jedne biblioteke.
Knjiga koju nam preporučate mogla bi eventualno doći u obzir za
prevođenje nakon što se rasproda knjiga ŠTO SU ALGORITMI, jer u
biblioteci nećemo šampati ponovljena izdanja već knjige sličnog
sadržaja iz istog područja matematike kako bi čitaoci ove biblioteke
dobili čim kompletniji uvid u pojedino područje.

Uz drugarski pozdrav

Urednik

Zlatko Šponer

P.S. Prilažemo Vam kao poklon knjigu
Trahtenbrota ŠTO SU ALGORITMI



MONTANUNIVERSITÄT LEOBEN
INSTITUT FÜR MATHEMATIK
A-8700 LEOBEN, AUSTRIA

Leoben 1979-04-11

Doz. Dr. D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
p.O. Box 816
11001 Belgrade - Yugoslavia

Dear Mr. Cvetković,

Thank you very much for the invitation to give a lecture in Belgrade. I will be delighted to come. The most convenient date for me would be May 25. If this is not feasible it might be possible to postpone the visit to June first or to June fifteenth.

I thought of giving a survey talk about reasons for and methods of counting graphs under the title "Enumeration of Graphs".

Should you prefer a talk on "Products of Graphs" or "Groups and Graphs" instead, please let me know.

I should like to come with Gabi. We are planning to arrive on Thursday and have to return on Sunday.

Hoping to meet you soon!

Sincerely yours,

A handwritten signature in cursive script that reads 'W. Imrich'.

Wilfried Imrich

D.Cvetković

17.4.1979

Mr. Y. Takenaka
Department of Administration Engineering
Faculty of Engineering, Keio University
832 Hiyoshi-cho, Kohoku-ku
Yokohama 223
Japan

Dear Mr. Takenaka,

I am most kindly asking you to send me a reprint or
a copy of the paper by H. Hideo, Y. Takenaka, entitled
"On the spectrum of a graph, Keio Engrg. Rep. 31(1978),
no.9, 09 - 105.

Thanking you in advance,

Yours sincerely

D.Cvetković

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AUTORSKA AGENCIJA**
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BEOGRAD, 19.4.79
Majke Jevrosime 38
Fah 687 — Tek. rač. 60806-631-25643
Telefon 323-155 325-902
Telegrafska adresa: AUTORAGENCIJA

Dr Dragoš Cvetković
Lamartinova 44
11000 B e o g r a d

SPECTRA OF GRAPHS -
Cvetković/Saschs/Doob

D D R

Poštovani druže Cvetkoviću,

U prilogu vam šaljem pet primeraka ugovora koji nam je prosledio izdavač VEB DEUTSCHER VERLAG DER WISSENSCHAFTEN, Berlin/D D R i molimo da nam četiri potpisane primerke vratite kako bismo ih prosledili izdavaču.

Sa srdačnim pozdravima.

Odsek književnih prava

S. Paunović
S. Paunović

Šef Zajedničke službe



R. Vlašćelin
R. Vlašćelin

PREPORUČENO

D.Cvetković

23.4.1979

Prof. J.J. Seidel
Technological University Eindhoven
Department of Mathematics
POB 513
Eindhoven
The Netherlands

Dear Mr. Seidel,

Thank you very much for your letter of April 9. It is really very kind of you to offer us your hospitality this Summer. The week of July 23-27 is quite good for us and we shall consider this as a fixed part of our trip. I shall write you with more details as soon as we complete the plan of the trip.

I have some little results on strongly regular graphs but I think I shall not be able to send them to you before your trip to America. I am really interested to see Haemers' thesis. Regards to him and Bussemaker.

We all send best regards to you and to your wife.

Yours sincerely

D.Cvetković

D.Cvetković

23.4.1979

Prof. Dr.W. Imrich
Montanuniversität Leoben
Institut für Mathematik
A-8700 Leoben, Austria

Dear Mr. Imrich,

Your proposal to come to Belgrade on May 24 is quite acceptable. I arranged everything concerning your lecture with Mathematical Institute. I would ask you to deliver the lecture on "Products of Graphs". That would be useful for Simić and for myself.

I booked a double room for you in the Park hotel "Njegoševa 4. They will keep the room for you until 20 o'clock, Thursday, May 24. If you will be coming by car the best way is to look at the highest building in Belgrade. The building is black and your hotel is in the neighbourhood. If you will come by public transportation means, please let me know, I would come to take you to the hotel.

In any case, my home address is: Lamartinova 44 and my telephone number (home) is 437-263.

Looking forward to meeting you soon.

Yours sincerely

D.Cvetković

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

April 23, 1979

Dr. Dragos Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade - YUGOSLAVIA

Dear Dr. Cvetković:

As you may already know, Western Michigan University plans to host its Fourth Quadrennial International Conference on Graph Theory and Applications during the period May 6-8, 1980. On behalf of the co-directors, it is a pleasure to extend to you an invitation to participate in and speak at this Conference.

Should you be able to accept our invitation, your talk would be scheduled for 25 minutes (which includes time for questions) and should deal with recent, publishable research. Plans call for contributions to appear in a Conference Proceedings.

We are applying for a grant and hope to provide partial support for you. In any case, we certainly hope it will be possible for you to accept our invitation and reply to us by May 30, 1979.

Professor White joins me in sending you our greetings.

Sincerely,



Yousef Alavi

YA/sle

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

Dear *Professor Crutcher*

Your talk has been schedule for 20 minutes on May 6
at 10:50 A.M.

John Wiley & Sons will publish the Proceedings. If you plan to submit a paper for the Proceedings, recall that the deadline for submission is May 9. We cannot make any exceptions. Earlier submission is encouraged. Every submission will be refereed. Each submission should not exceed ten typed pages if at all possible.

Talks will be held at both Western Michigan University and Holiday Inn-West. Talks at the University will take place in a large lecture room, with overhead projectors and large blackboards available. There will be overhead projectors and a portable blackboard for talks scheduled at Holiday Inn-West.

We all look forward to your visit and your talk.

Cordially,
The Directors

Institut für Angewandte Mathematik

Montanuniversität Leoben

A-8700 Leoben

Vorstand: o. Prof. Dr. Wilfried Imrich

Leoben, 1979-05-10

Doz. Dr. D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije 73
P.O. Box 816
11001 Belgrad - Jugoslawien

Dear Mr Cvetković,

Thank you very much for your letter of April 23 and the invitation to give a talk on "Products of Graphs".

Since we want to spend as much time as possible in Belgrade Gabi and I have made reservations for the train arriving on Thursday, May 24, at 6¹⁵ in the morning. Of course we cannot reasonable expect you to wait for us at such an odd time, but maybe we can phone you after having had breakfast at the railway-station. If we cannot reach you, we will go to the hotel directly and try to contact you later.

We plan to leave Belgrade on Sunday at 17⁴⁰.

Looking forward to an interesting visit,

Sincerely yours,



W. Imrich

D. Cvetković

14.5.1979

Prof. Y. Alavi *Michigan*
~~Western Michigan University~~
Department of Mathematics
Kalamazoo, Michigan 49008
USA

Dear Professor Alavi,

Thank you very much for your letter of April 23 and for inviting me to the Kalamazoo Conference next year. I accept with great pleasure this invitation. I am not able at the moment to tell you the title of my talk but I shall do that as soon as possible. Any support will be greatly appreciated.

With kind regards,

Yours sincerely

Dragoš Cvetković

Institut für Angewandte Mathematik

Montanuniversität Leoben

A-8700 Leoben

Vorstand: o. Prof. Dr. Wilfried Imrich

Leoben, 1979-06-11

Herrn

Doz. Dr. D. Cvetković

Faculty of Electrical Engineering
University of Belgrade

Bulevar Revolucije, 73

P.O.Box 816

11001 Belgrade - Yugoslavia

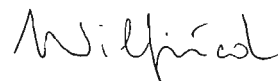
Dear Dragos,

Gabi and I want to thank you very much for the invitation to Belgrade and for your kind hospitality. We both enjoyed our stay there very much indeed.

I have just written a letter to Prof. Harary about his visit to Leoben and have enclosed your letter to him, which arrived today. Just in case I have kept a copy for myself.

I also hope that we will soon have a chance to meet again, be it in Yugoslavia or elsewhere. Greetings to you and your wife.

Sincerely yours,



Wilfried Imrich

P.S.: I take the liberty to enclose a few stamps for your son.

Dragi profesor Cvetković,

i sam sam hteo ovih dana, da vam se javim u vezi posete prof. Hararya u Ljubljani. Najpre nekoliko poslednjih informacija:

Prof. Harary dolazi u Ljubljano u nedelju 24.juna i ostaje ovde 25 i 26 juna. U to vreme najverovatnije će održati dve "lekcije". Teme još nisu dogovorene. U sredi 27.juna možda odlazi u Zagreb (na filozofski fakultet, ako budu zainteresovani - tamo poznaje prof. Josipa Obradovića) ili ostaje u Ljubljani. 28.juna nastavlja put za Milano.

Trenutno (do 14.juna) prof. Harary nalazi se u Münchenu. Posle toga ima "turneju" po Austriji. Pošto sam dobio vaše pismo u ruke tek danas (12.juna - dve nedelje ležao sam kod kuće posle operacije), teško je, da bi tamo stiglo još na vreme. Posle 14.juna sa prof. Hararyem dogovoreni smo, da će mi se javljati telefonom. Tom prilikom obavestit ću ga i o sadržaju vašeg pisma. Inače, mislim, ako dođete u Ljubljano naći će se vreme za sve.

Slažem se sa vama, da bi ovu priliku mogli da iskoristimo da se pobliže upoznamo i porazgovaramo o mogućim oblicima saradnje. Šteta jedino, što će Tomo Pisanski biti odsutan (još uvek je u Americi); no, najverovatnije Dragan Marušič će se još na vreme vratiti iz Engleske.

O mogućnosti dolaska prof. Hararya u Ljubljano kolega Peter Tancig sa Instituta Jožef Stefan obavestio je prilikom posete u Beogradu kolegu Duška Vitasa sa Matematičkog Instituta u Beogradu, pa će verovatno stići u Ljubljano i neki kolege sa tog instituta.

Kad stigne vaše pismo iz Maribora, pokušat ću da vas nazovem
telefonom. No, za svaki slučaj šaljem vam najpre ovo pismo kući.

Mnogo pozdrava i, nadam se, doviđenja u Ljubljani

Antoni V. di - l

Ljubljana, 12.6.1979

P.S. moja adresa kod kuće

Tavčarjeva 4

61 000 Ljubljana

telefon (kod kuće): 061 324 529

Ljubljana

INSTITUT FÜR MATHEMATIK
DER TECHNISCHEN UNIVERSITÄT MÜNCHEN

Institut für Mathematik der Technischen Universität München
D-8000 München 2, Postfach 202420

Prof. D. Cvjetković
Faculty of E. E.
Univ. of Belgrade
PO Box 816
11011 BEOGRAD
Yugoslavia

MÜNCHEN, DEN 13 June

ANTWORT ERBETEN AN:

FERNRUF (089) 2105 -

Dear Džgoš,

Please call me "Frank". I will be delighted to see you and Cutman and Simić again in Lj. from when I arrive on Sunday 24 June by train from Klagenfurt (about noon if I train), then on 25 and 26 in Lj. as time permits from my 2 lectures.

Now on Wed. 27 June I hope very much that a lecture in Zagreb has been arranged for me as I have not yet been there.

Of course I also look forward to seeing you both in Ann Arbor and Kalamazoo next year.

Kind regards to all,
Frank

Beograd, June 20, 1979

Dear Mr. Seidel,

I am looking forward to seeing you next month. We shall probably come by plane and be in the Netherlands 8-10 days, including a few days in Amsterdam and other nice places. I shall write soon to you to tell you exact term of our arrival (probably on July 23).

Enclosed is an outline of a new paper of mine. You certainly can help me to identify the strongly regular graphs I have constructed. I have an intention to submit this note to our journal here after improving it. We can discuss this when I come.

Kind regards to you, your wife, and to all the colleagues I know

Yours sincerely
Dražen Bečević

29.6.1979

Prof. Dr. J.J.Seidel
Department of Mathematics
Technological University Eindhoven
POB 513
Eindhoven
The Netherlands

Dear Mr. Seidel,

We will be coming on Monday, July 23 by plane arriving at 13.20 o'clock to Shiphol.

We shall probably spend a few hours in Amsterdam and come to Eindhoven in the afternoon or in the evening. We have return tickets to Belgrade on July 30, Saturday and Sunday we shall probably spend in Amsterdam.

With kind regards to you and your wife,

Sincerely yours

Prof.Dr.Dragoš Cvetković

Beograd, July 12, 179

Dear Mr. Bussemaker,

As Mr. Seidel certainly told you, I shall spend the last week of July in your country, mostly in Eindhoven. I am coming on Monday, July 23, with my wife and my son. We want to visit all the places where we were before. That is also an opportunity to take some profit in mathematics.

The discussion with Prof. Seidel, with you and other colleagues will certainly be useful.

I am looking forward of seeing you soon.

Kind regards to you and to your family, also from my wife and my son.

Yours sincerely
Ljopov' bekeric'

INSTITUT FÜR MATHEMATIK
DER TECHNISCHEN UNIVERSITÄT MÜNCHEN

to 3 Aug 79,
then Michigan

Institut für Mathematik der Technischen Universität München
D-8000 München 2, Postfach 20 24 20

Prof D Cvetković
11000 BEOGRAD
Lamartinova 44
Yugoslavia

MÜNCHEN, DEN 18 July 79

ANTWORT ERBETEN AN:

FERNRUF (089) 2105 -

Dear Dragoš,

It was a pleasure to see you again in Ljubljana. The situation on my spectral papers with Esser is being clarified. Copies are also being sent you from Michigan and I shall appreciate your comments and references.

Please send me (to Michigan) an autographed copy of your nice looking little book with "M. Milić" "Teorija Grafova i Njihove Primene", Hanka Kyjica, Beograd, 1977.

And of course when ready your coming book with Doob and Sachs.

Here are some of the misprints I found in your references:

(over)

p. 67 Cadogan Charles → C. C. Cadogan

p. 142 Reference K26 Princeton → Princeton

K30 Z, → R, Z.

p. 143 K72 graphs → graph

and there are surely many others. So you should recheck this carefully.

In my paper with King, Moushowitz, Read,
Bull. London Math. Soc. 3(1971) 321-328

there is an important mistake. The figure giving a triple of cospectral graphs is wrong as only 2 of them are cospectral. What is the smallest such triple?

Kind regards, and to Dr & Mrs Simic,

Frank

Journal Production Department
John Wiley & Sons, Inc.
605 Third Avenue
New York, N.Y. 10016

Dear Sirs,

Please find enclosed the proof and the manuscript of my article (with S. Simić) "A bibliography of graph equations" which is going to appear in Journal of Graph Theory.

Many changes ~~are~~ required are caused by the fact that the managing editor has changed the numbers of some references (see manuscript, pp. 20-22) and has forgotten to change the same numbers at other places in the manuscript.

Belgrade, August 22, 1979

Sincerely yours
Draško Petrović,
Faculty of Electrical Engineering
University of Belgrade,
P.O.B. 816,
11001 Belgrade, Yugoslavia

Beograd, August 22, 1979

Dear Frank,

After having come back from a trip to the seaside I found your mail with several papers on graph spectra, with the list of your papers and a copy of the front page of your book in Japanese. Thank you very much for everything as well as for your letter from München I received earlier.

Since I was just doing corrections for the book on graph spectra (with Doob and Sachs), I inserted the data ~~to~~ about your Japanese book into the bibliography. Now I have finished the proofreading and I looked a little bit into your papers with F. Esser. The material is interesting and stimulating. On the other hand I shall certainly have some remarks. Let me read the papers more carefully. After a week or so I shall write you about the papers with more details and let us hope that this would lead to some results. At the moment, I would draw your attention to the paper: D. Behtoric, S. Butman, The algebraic multiplicity of the number zero in the spectrum of a bipartite graph, Mat. Vesnik 9(24)(1972), 141-150.

With kind regards

Yours sincerely
Djordje Behtoric

Beograd, August 23, 1977.

Dear John,

I visited Eindhoven together with my family last July. It was a pleasure to see the nice places where we were before and to meet the friends ~~after~~ three years after leaving ~~the~~ Holland.

In the discussion with Prof. Seidel, he showed me your paper "Locally Petersen Graphs". My first reaction was that your problem is a special (although interesting and, probably, very hard) case of the general problem posed by Russian mathematician A.A. Zykov at the Symposium in Swolenice. I promised Seidel to write you about it but later, by studying your references more carefully, I realized that you are aware of this fact. In any case, if it is not too late for changes, I would suggest you to mention Zykov. For your information, another Russian, Bulitcho, did some work on this problem (I don't know references of the moment). I saw also two papers (by J. Doyen, X. Hubaut, and by P. Hell in *Problemes Combinatoires et Theorie des Graphes* (Proc. of the 1976 Paris Conference) about the same problem (but not your case).

I have been invited to the Kalamazoo Conference next May and after that I shall go to Winnipeg to visit Doob. Prof. Harvey invited me to stop by at Ann Arbor. Of course, I would be very happy if there would be some possibilities to visit East Lansing, too.

Incidentally, if you happen to have a small map of Michigan State, would you send me it in a letter? I have only maps of all USA, where I cannot find such places as Kalamazoo.

Sometimes we are speaking about you when remembering to to stay in Eindhoven.

With kind regards from all of us to you and to your wife

Yours sincerely
Dragos' heteric'

Beograd, September 3, 1979

Dear Frank,

As promised in my letter of August 22, I am writing you with more details about your recent papers on graph spectra. At the moment I shall concentrate myself on criticism; during September I shall try to find out what would be my contribution to the problems considered. I shall write to you in that sense in a month or so.

Since many details from your papers appear also in my papers, I am enclosing the list of ^{my} books and papers and I shall refer to this list.

Let me comment now your papers (with F. Esser).

1. Complete multipartite graphs have unimodal characteristic sequences. No special comment since the paper more belongs to the mathematical analysis than to the graph theory. One minor thing, which also applies to the next paper, is the following one. The characteristic polynomial of $K(n_1, \dots, n_r)$ is also determined in my thesis [17], independently ^{of} and in the same time as your paper with King, Mowshowitz and Read. Last fact was pointed out in [28] and [50]. A misprint in your paper with Mow, King and Read was noted in [28].

2. On the spectrum of a complete multipartite graph. I like this paper at most. Still I would pay your attention to the following. J. H. Smith proved that non-isolated vertices of a graph form a complete multipartite graph if and only if it has just one po-

sitive eigenvalue. Therefore your assertion that no complete multipartite graph has a cospectral mate, is not true. A counterexample can be found in [50], p. 164: graphs $K_{18,3,3}$ and $K_{9,9,2} \cup 4K_1$ are cospectral! That what is meant is that two complete multipartite graphs are isomorphic if and only if they are cospectral; but you say so. Lemma 1, and, in particular, the statement (b) of this lemma, are a special case of a theory, developed by H. Sachs, on graph divisors. (The theory is explained in Section 4 of [50]). Concerning the set $\underline{K}(p; n)$ ordered by spectral radii, it has been proved in [28] that the spectral radius $K(p_i)$ is not greater than $\frac{n-1}{n}p$ and this bound is iff all p_i 's are equal.

3. The pairing theorem for digraph spectra. In [50] you can find the following theorems:

Theorem 3.3. A digraph G has no odd cycles if and only if its characteristic polynomial has the following form:

$$P_G(\lambda) = \lambda^n + a_2 \lambda^{n-2} + a_4 \lambda^{n-4} + \dots = \lambda^p Q(\lambda^2)$$

Theorem 3.4. A strongly connected digraph G with greatest eigenvalue r has no odd cycles if and only if $-r$ is an eigenvalue of G .

The first theorem is attributed to H. Sachs and the second is my contribution not published before. Theorem 3.4 is proved in a couple of lines by the use of the Frobenius theorem.

Your theorem: "A digraph D is bipartite if and only if $\chi(D) = \chi(-D)$ ", although a simple consequence of known results, is stated in this form as far as I know.

Another remark; '74 I remember well, Coulson and Rushbrooke proved only a part of pairing theorem, namely that the spectrum of a bipartite graph is symmetric; they have not proved the converse,

4. Digraphs with real and Gaussian spectra, My remarks are related to Section 3, where you speak about the eigenvalues of several graph products. What are you doing here, I did in [7] and [17], and even more generally, since I consider not only binary but also m -ary operations on graphs. See my thesis [17], p. 39, Theorem 5.3. Your proof is not easier, just equivalent to mine. Also A. J. Schwenk in his paper "Computing the characteristic polynomial of a graph" has no right. He says on p. 165: "The next theorem extends a result of Böhmer [2]" and he gives a special case of a far more general result from my thesis (just the above one) and my thesis is in his list of references under number 3! Probably, he has not seen Theorem 5.3 in my thesis. I also used Theorem 5.3 in several papers of mine, for example, [18]. Theorems 5.3 and 5.4 from my thesis have still been generalized in a certain direction; this has been done by a student of mine R. Šolovjević (he suddenly died a couple of years ago) and I am enclosing his paper here (A generalized direct product of graphs; see Theorem 3). Everything is also described in [50], of course.

5. The number of zero eigenvalues of a tree, The problem has been treated in a series of papers of mine, of course.

and of Trinajstić [23], [26], [33], [38]. We have much more results than you. For example, the procedure of deleting ~~end-points~~ holds without any further assumptions not only for trees but also for bipartite graphs and even for all graphs! The problem is also described in [50]. By the way the problem of finding the multiplicity of eigenvalue zero is posed in old paper by Collatz and Sinogovitch. My proposal is to cancel this paper of yours.

Despite of all this criticism, I found in your paper many ideas I did not know and, as I told, I shall consider further these papers. It would be very useful to me if I would know in which stage of publications are all these papers.

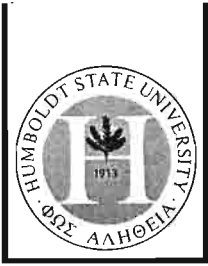
Other things:

You mentioned me that there was a mistake in your paper where a triple of connected graphs is given. Unfortunately, this example is reproduced in our book. I wrote to Sachs about it and we shall see whether and what Sachs has done to correct this.

In these days I shall send you my book (with M. Milić) "Graph Theory and Its Applications" (in Serbo-Croatian: Teorije grafova i njene primjene). Your name is mentioned in the text on p. 31. Next time when we meet I'll translate you this sentence!

With kind regards

Yours sincerely
Đorđe Bečević



HUMBOLDT STATE UNIVERSITY · Arcata, California 95521 · (707) 826-3143

Department of Mathematics

September 5, 1979

Dr. Dragoš Cvetković
Department of Mathematics
Faculty of Electrical Engineering
University of Belgrade
Belgrade, Yugoslavia

Dear Dragoš:

Please, please send me a copy as soon as possible of your article with I. Guttman in which you determine the number of zeros in the spectrum of a bipartite graph. Kindly also send a copy to my colleague:

Dr. F. Esser
Institut für Mathematik
Ruhr Universität Bochum
Bochum
West Germany

Thank you very much indeed.

Yours cordially,

Frank (bt)
Frank Harary

FH:bt

P.S. I return to Michigan tomorrow.



The University of Michigan

DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING

ANN ARBOR, MICHIGAN 48109

(313) 764-6485

September 14, 1979

Professor Dragoš Cvetković
Department of Mathematics
Faculty of Electrical Engineering
University of Beograd
P.O. Box 816
11001 Beograd
Yugoslavia

Dear Dragoš:

It was very kind of you indeed to send your long letter of 3 September. In accordance with your suggestion, I am now writing to Fritz Esser and we will of course withdraw our article on zeros in spectrum of a tree in view of the fact that you and your colleagues have already solved and published this problem. For the purpose of making the improvements in our other papers, both in the material and with regard to including those of your references which are appropriate, would you please send a copy of your list of publications to my colleague in this cospectral activity whose name and address are as follows:

Dr. F. Esser
Institut für Mathematik
Ruhr-Universität Bochum
Bochum, Deutschland

I am sending him today a copy of your important 4-page letter.

With kind regards.

Yours sincerely,

Frank
Frank Harary

FH/ms

22. listopada 1979.

»RUĐER BOŠKOVIĆ« INSTITUTE

41001 Zagreb, Croatia, Yugoslavia

POB 1016
PHONE: (041) 424-355
TELEX: 21-383

Profesor
Dragoš Cvetković
Lamartinova 44
110000 Beograd

Dragi Dr. Cvetković,

Šaljem vam rukopis u pripremi, pa bih vas molio za komentar, ukoliko imate nekih kritičkih primjedbi. Kopiju sam poslao i Gutmanu.

Za koji mjesec možda odem do Gutmana na koji dan u Kragujevac, pa ću nastojati i da vas sretnem na sat-dva u Beogradu. Možda bi mogli dogovoriti i koju temu od obostranog interesa.

Ukoliko je izašla vaša, Doob i Sachsova knjiga o spektrima grafova, molio bih vas da mi javite gdje se i kako može nabaviti. Jedan primjerak bih volio imati za sebe, a drugi bih naručio za knjižnicu Instituta.

Primate mnogo srdačnih pozdrava
od



Ante Graovca.

23.9.1979

Prof. Y. Edmonds
The Ministry of Waterloo
Waterloo, Canada

Dear Professor Edmonds,

Some colleagues here from the Faculty of Electrical Engineering work on graph algorithms and they came across your algorithm for tree identification (see the enclosed page). The page is from the book "Finite graphs and networks by Bussaker and Saaty. Since they want to see your original paper I would ask you most kindly to send me exact reference where the algorithm is described and, if possible, the corresponding reprint.

Thanking in advance,

Sincerely yours

Dragoš Cvetković

23.9.1979

Dr. C. Godsil
Mathematics Department
University of Melbourne
Parkville, Vic. 3052
Australia

Dear Mr. Godsil,

Thank you very much for the letter, the book, the calendar and many toys we received a few months ago (part of them for Gutman). We sent you a picture post card from the Holland where we were last month but later I realized that that was an address differing from the above one. Gutman reports me always about the progress which is being made related to matching polynomials. You certainly had a nice time in Vancouver this summer. Here is nothing specially new except for the fact that the proof reading of the book on graph spectra (with Doob and Sachs) is just finished and the book should appear this Autumn. Do not forget to send me new paper on graph spectra.

With kind regards to you, your wife and McKay's.

Sincerely yours

Dragoš Cvetković

Zagreb, 4. 10. 1979.

Dragi profesore Cvethoviću,

Prijatno ste me iznenadili sa ovim tabacima, i nadam se da će Vam stići natrag na vreme. Ja sam ispravio nekoliko gresaka; uglavnom se radi o propustima prilikom pisanja formula. Pri ruci mi nije bio originalni tekst, ali, nadam se da mi nisu izmakle neke grube greške.

Ako bude potrebno još nešto da se utadi, pošaljite mi. Ja ću biti u vojsci, nadam se, do 15. marta 1980. godine. Ako bude neka promena adrese, javiću Vam.

Početkom avgusta sam bio u Beogradu, ali nije bilo nikog u vašim prostorijama na fakultetu. Verovatno znate da sam konkurisao za asistenta na katedri za matematiku.

Puno pozdrava

Milan Merkle

4/6 Elm Rd
Glen Iris, 314
VICTORIA
AUSTRALIA
9/10/79

Dear Dr & Mrs Cvetkovic,

Time has passed so quickly since we reached home. We did enjoy travelling and our stay in Belgrade. We have so many wonderful memories. After tasting the tempting meals we have been trying out new recipes.

Please thank Dr Simic for showing us the sights of the city. It was very interesting. Also, please pass on our well wishes to Gutman.

As soon as we reached home Tanya was over her illness, started eating double her usual amount and quickly put on weight. She has started at a toddler's group for 2 hours a week. She enjoys it and is very active. She has no fear of animals and is always pleased to see them. She would be really delighted to hear Mladen's animal noises.

We hope Mladen is enjoying school. He must be very good at English by now. I was lucky to spend last term teaching mathematics. Brendan has settled into his tutoring position but obviously looks at Saturday newspapers for research positions. He has applied for Nashville, Tennessee but is hoping for a position inside Australia to be advertised.

We have hung the woven bag you gave us in our living room of our flat. It is beautifully handcrafted. Everyone admires it.

We are so grateful to you for helping us in Belgrade especially with our luggage at the airport we would have had a lot of difficulty otherwise.

Hope you are all well.
Best regards

Joan, Brendan & Tanya McKay



Dr. Allen J. Schwenk
Department of Mathematics
U. S. Naval Academy
Annapolis, MD 21402
DE AVY
UNITED STATES NAVAL ACADEMY
ANNAPOLIS, MARYLAND 21402

Dear Dragoš,

Frank suggested you might be interested in seeing our joint article which is enclosed. I have also included two of my recent articles. I should mention that Godsil and McKay's partitioned tensor product is actually more general than my "generalized composition".

Sincerely
Allen J. Schwenk

Beograd, October 15, 1979

Dear Mr. Haemers,

Thank you very much for your thesis I received a couple of days ago. I shall read it in these days with great pleasure. I wish you all the best for the defense of the thesis and I congratulate in advance.

Enclosed is an improved version of my recent note concerning construction of strongly regular graphs. I gave you the previous version when I was in Eindhoven. Prof. Seidel helped me in identifying graphs F_n from Theorem 1. I still do not know whether graphs H_s from Theorem 2 are new or not. H_1 is the Clebsch graph and for H_2 I looked at the computer material on strongly regular graphs you gave me last July. The graph H_2 has $n = 256$ vertices and degree $k = 120$. Would you explain me the meaning of the data from the computer output for $n = 256, k = 120$ or can you in any other way tell me something about graphs H_s from Theorem 2?

Regards to Prof. Seidel and Mr. Bassemaier.

Are now Prof. Seidel's parents well? I have not received any mail from Seidel after our stay in Eindhoven.

With kind regards

Yours sincerely

Dragoš Bečirović

PS. The proofs for the book on graph spectra are finished and according to the plan the book should appear next month. We shall see whether there will be still some delay.

Final title of the book "Graphs and Applications"

R. L. Hemminger

VANDERBILT UNIVERSITY



NASHVILLE, TENNESSEE 37235

TELEPHONE 322-7311 AREA 615

Department of Mathematics • Direct phone 322-6672

Prof. D. M. Cvetković
Lamartinska 44
11000 Beograd
YUGOSLAVIA

Dear Prof. Cvetković:

I should greatly appreciate it if you would send me a
reprint of your papers ① The main part of the spectrum divisors
_____ which appeared in _____
_____ and also of any other related papers.

Thank you.

Yours truly,

and switching of graphs and

② (joint with S. K. Simić) Graphs which are switching
equivalent to their line graphs

both appeared in Publ. Inst. Math. (1978) Vol. 23(37)

I would also like copies of any other recent papers
concerning line graphs.

Prikaz knjige "Algoritmi"

Naslov: "Algoritmusok" (Algoritmi)
Autori: László Lovász i Péter Gács
Izdavač: Műszaki Könyvkiadó, Budapest (Mađarska)
Godina izd.: 1978.
Broj strana: 180 (formata 20 x 14 cm)

Knjiga je izdana u okviru edicije "Matematika za inženjere".

Sadržaj^x

-. Uvod

1. Kombinatorni algoritmi

1.1. Sortiranje

1.1.1. Umetanje (novog elementa u zadani niz elemenata)

1.1.2. Upoređivanje (dvaju zadanih nizova elemenata)

1.1.3. Uređivanje u niz

1.1.4. Preuredjenje putem zamena

1.1.5. Najveći element i sledeći elementi

1.1.6. Traženje medijane (tj. elementa koji se nalazi u sredini zadanog niza)

1.2. Problem pakovanja

1.2.1. Metode probanja

1.2.2. Pakovanje u interval

1.2.3. Sparivanje

1.3. Traženje puta

1.3.1. Povezanost

1.3.2. Najkraći put

1.3.3. Najduži put

^xSve ono što je stavljeno u zagradu dodali su pisci ovog prikaza.

1.4. Suboptimalni algoritmi

1.4.1. Zadatak ranca (imamo n predmeta čija je zapremina redom V_1, V_2, \dots, V_n . Treba ove predmete smestiti u što manji broj ranaca čija je zapremina V)

1.4.2. Zadatak pokrivanja

1.4.3. Hromatski broj

1.5. Dijagnostika grafova (utvrđjivanje egzistencije pojedinih osobina zadanog grafa)

1.5.1. Povezanost

1.5.2. Takmičenje sa ispadanjem i jedan srodni zadatak

1.5.3. Poopštenje problema

2. Zadaci traženja (Ova glava se bavi efektivnošću algoritama, tj. da li je broj koraka eksponencijalan, polinomijalan i sl.)

2.1. Problem problema

2.1.1. Tamo gde i ptičica može da pomogne (Naime, ako nam jedna "pametna ptičica" kaže rešenje problema, nama ostaje samo da proverimo da li je to rešenje tačno ili ne. Za neke probleme je postupak provere trivijalan a za neke druge je jednako težak kao i rešavanje samog problema.)

2.1.2. Univerzalni zadatak - problem zadovoljivosti (Normalna logička formula je "zadovoljiva" ako njene promenljive mogu da poprime takve logičke vrednosti da formula postaje istinita. Formuliše se stav da se svi problemi traženja svode na problem zadovoljivosti.)

2.2. Teški kombinatorni zadaci

2.2.1. Neposredna preformulacija (problema zadovoljivosti)

2.2.2. Problem triju boja

2.2.3. Problem pakovanja

2.3. Pregled (rezultata dobivenih za zadatke traženja i sadašnjeg stanja u razradi ove problematike)

3. Algebarski algoritmi

3.1. Može se i brže množiti

3.1.1. Množenje velikih brojeva

3.1.2. Množenje velikih matrica

3.1.3. množenje polinoma

3.1.4. Konačna Furierova transformacija (Neka je zadan niz brojeva a_0, \dots, a_{n-1} i ~~xxxxxxxxxxxx~~
~~Tada brojevi~~ polinom $P(x) = a_0 + a_1x + a_2x^2 + \dots$.
Neka je $r \geq n$ i $e_r = \exp(2\pi i/r)$. Tada brojevi
 $\hat{a}_k = P(e_r^k)$, $k=0, 1, \dots, r-1$) predstavljaju konačni
Furierov ~~r~~ transformat brojeva a_0, \dots, a_{n-1} .)

3.2. Množenje umesto deljenja

3.2.1. Deljenje brojeva

3.2.2. Deljenje stepenih redova i polinoma

3.2.3. Euklidov algoritam

3.2.4. Invertiranje matrica

3.3. Odredjivanje vrednosti polinoma

3.3.1. Panove donje procene (o broju operacija prilikom izračunavanja vrednosti polinoma)

3.3.2. Prekondicioniranje (Pripremna prethodna izračunavanja koja se vrše u cilju skraćenja glavnog računanja.)

3.3.3. Tabeliranje i njemu suprotna operacija - interpolacija

3.4. Paralelno računanje (Računanje se izvodi tako da se istovremeno vrši onoliko operacija koliko je samo moguće.)

3.5. Modularni algoritmi

3.5.1. Kineski stav o ostacima

3.5.2. Tačno rešavanje sistema linearnih jednačina

4. O teoriji izračunljivosti

4.1. Algoritamska rešivost

4.1.1. Pojam algoritma

4.1.2. Univerzalna (Turingova) mašina. Zadatak zaustavljanja (Zadatak zaustavljanja glasi: za zadani program P i podatke x odrediti da li će se univerzalna mašina sama od sebe zaustaviti posle konačnog vremena ili će raditi do u beskonačnost. To je primer problema koji nije algoritamski rešiv.)

4.1.3. Jednostavni neodlučivi zadaci

4.2. O opsegu računanja

4.2.1. Merenje opsega (računanja)

4.2.2. Optimalni algoritmi

4.2.3. Donje procene (opsega)

- . Rešenje zadataka (radi se o ukupno 26 zadataka)

Iz sadržaja i naših napomena (koje su stavljene u zagrade) vidi se kakva se problematika obradjuje u knjizi. Ovde bismo naveli još neke opšte karakteristike knjige.

1. Iako knjiga sadrži opis veoma velikog broja algoritama, pisci nisu želeli da načine enciklopediju algoritama. Na mnoštvu primera samo su ilustrovani neki opšti principi u teoriji algoritama. Bez obzira na to, čitaoci mogu ovu knjigu obilno koristiti da iz nje nauče o mnogim algoritmima iz: kombinatorike, teorije grafova, aritmetike i ~~ix~~ algebre.

2. Najviše prostora je posvećeno grafovima. To donekle odražava činjenicu da je L.Lovász jedan od vodećih matematičara u toj oblasti u svetu. Pisci od čitalaca očekuju izvesno predznanje i rutinu iz teorije grafova. Za jugoslovensku čitalačku publiku, koja je manje familijarna sa teorijom grafova, ovo može da bude izvestan hednik. Svo ostalo matematičko predznanje koje se zahteva od čitalaca (iz aritmetike, linearne algebre i matematičke logike) odgovara nivou studenata prve ili druge godine

matematike, fizike i tehnike. Veliki deo izlaganja mogu da prate i bolji srednjoškolci.

3. Materija koja se obradjuje u knjizi je, kao što je poznato, veoma aktuelna. Mnogi problemi koji se diskutuju su rešeni tek pre nekoliko godina. Navedeni su i mnoga hipoteze, nerešena pitanja i problemi; spominju se imena mnogih savremenih matematičara. Čitalac zaista oseća da ga pisci uvode u tokove današnje, živeće ~~matematike~~ i stvaralačke matematike.

4. Stil knjige zaslužuje poseban komentar. Prava je retkost naći matematičku knjigu (i to iz "ozbiljne" a ne "popularizatorske" matematike) koja bi bila toliko puna finog humora, laka i zanimljiva za čitanje kao "Algoritmi". Ni govora o toliko uobičajenoj suvoparnosti matematičkih dela! Gde mogu, pisci navode istorijske podatke, anegdote i sl.

S druge strane, većina iskaza se daje bez dokaza, tako da će čitalac biti samo informisan o mnogim važnim i teškim rezultatima savremene matematike. Smatramo da je to prednost a ne nedostatak jedne ovako koncipirane knjige.

5. Kome je knjiga namenjena i ko je može čitati?

Knjiga obradjuje probleme algoritama s kojima se pored matematičara susreću svi oni koji se na ovaj ili onaj način bave računanjem. Zato se ona može preporučiti:

1. matematičarima (kojima ova problematika nije specijalnost)
2. programerima svih profila
3. naučnim radnicima iz oblasti prirodnih nauka
4. inženjerima svih struka
5. studentima prirodno-matematičkih i tehničkih fakulteta
6. srednjoškolskim nastavnicima i naprednijim srednjoškolcima

Zaključak

Iz svega navedenog možemo zaključiti da je knjiga Lovásza i Gácsa veoma uspela i da se može očekivati da će naići na odziv relativno širokog kruga čitalačke publike u našoj zemlji. S obzirom da sličnih knjiga na našem jeziku nema (a verovatno ih nema mnogo ni u svetu), predlažemo da se "Algoritmi" prevedu na naš jezik i objave.

1. *Dr. Dragomir Vekrović*, docent ETF u Beogradu

2.

Ivan Gutman

3. Dr. Ivan Gutman, docent PMF u Kragujevcu

4. Dr. Slobodan Simić, asistent ETF u Beogradu

SR

RESEARCH CENTER FOR GROUP DYNAMICS / INSTITUTE FOR SOCIAL RESEARCH / THE UNIVERSITY OF MICHIGAN / ANN ARBOR MICHIGAN 48106

November 8, 1979

Dr. Dragoš Cvetković
Department of Mathematics
Faculty of Electrical Engineering
University of Beograd
P.O. Box 816
11001 Beograd
YUGOSLAVIA

Dear Dragoš:

Thank you very much indeed for sending a reprint of your paper with Gutman. Of course Fritz Esser and I will no longer think of submitting our paper for publication in which we independently rediscovered precisely the same results but six years later than you did!

I am very embarrassed indeed to have to tell you that I have temporarily misplaced the large envelope in which you commented on my papers with Esser. I shall make a great effort to look for them with the help of a very fine student assistant and I hope that it will reappear. But if not, I certainly do hope that you have kept a copy of everything that you sent me as I might have to ask you to send it to me again.

The reason for this confusion in my life is that while I was away for four and a half months during the summer, someone else occupied my office here and I still don't know where all my things are, and my Mathematics office was moved from one building to another. As a result at both offices there are many things that are in boxes to this very day.

Yours cordially,



Frank Harary
Professor of Mathematics

FH/kjm

Dr.D.Cvetković

13.11.1979

Mr. Sergio Ruiz
Istituto di Matematicas
Universidad Catolica de Valparaiso
Valparaiso, Chile

Dear Mr. Ruiz,

Thank you for your card of October 18.

I have published about forty papers on graph spectra and I do not know which one to send to you. If you have any particular request I shall send you the corresponding papers. If you are interested in graph spectra, another possibility would be to try to find the following monograph, which just in these days should come out:

D. Cvetković, M.Doob, H. Sachs, Spectra of Graphs - Theory and Applications, Deutscher Verlag der Wissenschaften, Berlin (GDR), 1979.

The book will be distributed in west countries by Academic Press.

Unfortunately, I am not in touch with Agakishieva and Bulitko and I do not know their addresses. Bulitko is from the Soviet Union (may be from Kiev) and Agakisheva probably too.

With kind regards,

Yours sincerely

D.Cvetković

Belgrade, November 21

Dear Michael,

Unfortunately, not yet all details of my trip to America have been fixed. But in these days I should apply for getting money for this trip. An official letter of yours to me would help very much if you could just say that I am welcome to visit your department, or something like that, for a couple of weeks in the period May - June 1980. Possible subjects for joint work: next edition of the book on graph spectra, book on matrix theory, current research on graph spectra etc.

If you need something similar for your trip to Yugoslavia, I can send you it.

I shall write you soon about the computer program system on graph theory. I am busy now with

With kind regards

Yours sincerely

Dragos^u

Prof. F. Harary
Research Center for Group Dynamics
Institute for Social Research
The University of Michigan
Ann Arbor, Michigan 48106

Dear Frank,

Thank you for your letter of November 8. Enclosed is a copy of my letter that you have lost.

Thank you for the book I received from the New York Academy of Sciences and thank you for mentioning me and Simić in the introduction. Your interesting stories about independent discoveries, of about the growth of graph theory could be made more complete. Once when I have time, I shall write you about it.

My book on graph spectra should appear every day. Your name is on the mailing list we sent to the publisher. The title has been slightly changed in the very last moment; it now reads: Spectra of Graphs. - Theory and Applications.

These days I planned to write to you with the following two requests:

a) We agreed in Ljubljana last June that the right term of my visit to Ann Arbor would be a couple of days before Kalamazoo Conference, say on May 3, 1980. In these days I could apply, here in Belgrade, for getting money for my trip to America next year. An official letter of yours to me would help very much. You could just say that I am wellcome to visit University of Michigan and your department. We could exchange ideas on subjects of common interest (graph spectra, graph equations, especially possible publishing a book on graph equations). These subjects could include also what is described below.

b) I am initiating here a project of building a computer programme system which would help very much to graph theorists and

2.

other who are interested in graph theory. Roughly speaking the system would have three basic parts: part for proving theorems, part with graphical algorithms and an information system on the literature of graph theory. Now, I am asking you a partial question about it. Do you know that anybody in the world has built a computerized graph theory bibliography so that computer can answer to the questions like: "What F. Harary has published on graph spectra from 1975-1979?", "In which papers F. Harary's book has been mentioned in 1978?" etc? Do you know about such systems for other branches of Mathematics? My idea is to make a bibliography where the papers would be supplied by bay words and the key words system should be very detailed. Who should invent the key words system? Just one person or a committee of eminent graph theorists? Any comments on these lines would be of great help.

With kind regards

Your sincerely

D.Cvetković

D.Cvetković

23.11.1979

Mr. A.J. Hoffman
Thomas Watson Research Center
P.O.B. 218
Yorktown Heights, New York 10598
USA

Dear Mr. Hoffman,

I am planning to make a scientific trip to the USA in May next year and I would like to visit your Research Center and to meet you since we have some common subjects for discussion. My plan would be to come to New York about the end of April and remain there until May 3. After that I shall go to Ann Arbor and Kalamazoo. Please let me know whether my proposal is convenient to you.

Since I would like also to meet C.F. Capobianco in New York I am sending a similar letter to him.

The book on graph spectra should appear finally these days.

Yours sincerely

D.Cvetković

(-)

M.F. Capobianco
St. John's University
300 Howard Avenue
Staten Island
New York 10301
USA

Dear Mr. Capobianco,

I am planning a scientific trip to America in May next year. I would like to visit your University and to meet you since we have some common subjects for discussion. My plan would be to come to New York about the end of April and remain there until May 3. After that I shall go to Ann Arbor and Kalamazoo, please let me know whether my proposal is convenient for you.

Since I would like also to meet A.J. Hoffman in New York I am sending a similar letter to him.

The bibliography of graph equations will appear in the next issue of Journal of Graph Theory and my book on graph spectra should appear in these days.

With kind regards,

Yours sincerely

D. Cvetković



The University of Manitoba

Department of Mathematics and Astronomy

Winnipeg, Canada R3T 2N2

December 3, 1979

Dr. Dragos Cvetkovic
Department of Mathematics
Faculty of Electrical Engineering
University of Belgrade
P. O. Box 816
11001 Belgrade
Yugoslavia

Dear Dragos,

I was really quite pleased to get your letter indicating your possible plans for next year. We would like to extend an invitation to you to visit us during the months of May and June of 1980. We should be able to get accommodations for you that are similar to the ones you had when you visited us in 1978. It was felt at that time that your visit was mutually profitable, and we would certainly be pleased if you could visit us again.

In particular I hope that we can continue to work on our new book as well as the new edition of the book that we published together. We could make a lot of progress on our computerized bibliography, too. Of course I would expect us to continue our cooperative investigations in the theory of graph spectra also.

I hope you will let me know how your plans develop so that we can make advance plans for mutual endeavours.

Sincerely yours,

Michael Doob
Associate Professor



The University of Michigan

DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING

ANN ARBOR, MICHIGAN 48109

December 3, 1979

(313) 764-6485

Dr. D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade-YUGOSLAVIA

Dear Dragoš:

It is a pleasure to invite you to lecture before my group of graduate students and faculty members of my seminar on graph theory here at the University of Michigan on Monday, 5 May 1980. I hope you can arrive a few days earlier, say on Saturday, 3 May. This would give us the opportunity of discussing research on subjects of mutual interest including the spectrum of a graph and graphical equations. It would be interesting to explore with you the possibility of our writing a joint book on the latter subject. I am also interested in your computer program system. However, I myself do not have personal experience with computerized graph theory although I am very well acquainted with those experts who are working in that field.

I welcome you to the University of Michigan and to my Department of Mathematics, and also to the hospitality of my home where you will be my guest while you are in Ann Arbor. I am looking forward to seeing you again very much indeed. With kind regards.

Yours sincerely,

Frank Harary

Frank Harary
Professor of Mathematics

FH/dal

STANFORD UNIVERSITY
STANFORD, CALIFORNIA 94305

DEPARTMENT OF OPERATIONS RESEARCH

Dear ^{Pat} Eve + Harry,

I am pleased you will be in NY

And hope we can meet. I expect to be back
at IBM by the end of April, but I'm not
sure. Would you be kind enough to call
me when you arrive? My phone

numbers are: 914 945 2270 (office)

914 235 1797 (home)

My

I wish I could make more definite
plans, but the uncertainty about my return
makes it difficult. But I do hope we
can meet.

Best wishes,

Alan Hoffman

Dear Professor Cvetković !

Season's Greetings
and Best Wishes'
for the New Year

Murli
29/11/1979

[Signature]
29/11/1979

MEHTA RESEARCH INSTITUTE
Of Mathematics & Mathematical Physics
26, Dilkasha, New Katra, Allahabad-2 U. P. (INDIA)



FRED GALVIN
THE UNIVERSITY OF KANSAS
LAWRENCE, KANSAS · 66045

DEPARTMENT OF
MATHEMATICS
913-864-3651

Dec. 6, 1979

Dear Professors Cvethkovič and Simić,
I would be grateful for a reprint
of "a bibliography of graph
equations" in *J. Graph
Theory* 3 (1979), 311-324.

Thank you,

Sincerely yours,
Fred Galvin

St. John's University

300 HOWARD AVENUE
STATEN ISLAND, NEW YORK 10301

TELEPHONE:
(212) 447-4343

Division of Math and Science

December 6, 1979

Professor Dragos Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije 73
Box 816
11001 Belgrade, Yugoslavia

Dear Professor Cvetković,

I am delighted to hear by means of your letter of November 23rd of your plans for a scientific trip to the United States in April-May, 1980. I would be most pleased to welcome you to our campus. Perhaps you might like to deliver a short lecture.

I will also be going to Kalamazoo as will my colleague Fred Buckley and my dear friend Ove Frank, who will be visiting us from Lund, Sweden. It should be a very worthwhile meeting. Please send me the exact dates of your arrival as soon as possible.

I just saw your Bibliography of Graph Equations in JGT and would like a reprint of it. Thanks.

Best regards,



Michael F. Capobianco, Ph.D.

MFC:fc

St. John's University

300 HOWARD AVENUE
STATEN ISLAND, NEW YORK 10301

TELEPHONE:
(212) 447-4343

Division of Math and Science

December 6, 1979

Professor Dragoš Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije 73
Box 816
11001 Belgrade, Yugoslavia

Dear Professor Cvetković,

I am delighted to hear by means of your letter of November 23rd of your plans for a scientific trip to the United States in April-May, 1980. I would be most pleased to welcome you to our campus. Perhaps you might like to deliver a short lecture.

I will also be going to Kalamazoo as will my colleague Fred Buckley and my dear friend Ove Frank, who will be visiting us from Lund, Sweden. It should be a very worthwhile meeting. Please send me the exact dates of your arrival as soon as possible.

I just saw your Bibliography of Graph Equations in JGT and would like a reprint of it. Thanks.

Best regards,



Michael F. Capobianco, Ph.D.

MFC:fc

Beograd, 10.12.1979.

Dragi dr. Cvetković,

kao što znate neoludno sam bio u Beogradu na sastanku UNESKO-ovog Odbora za privlačne i efektne metode. Dr. E. Pirkmajer vas je obavestio o programu UNESKO-ovog ~~odborna~~ Biroa za evropsku naučnu saradnju. Jedna od tema koju moći Biro je matematičko modeliranje, pa sam odmah spomenuo vaše ime kao jednog od ljudi koji bi mogli izgraditi jugoslovensku mrežu za ovu temu. Ukoliko ste voljni da se uključite, molim vas, naovite sekretaru Odbora, LjUBU KUŠTRINA, tel. 335-792, 339-052, pozovite se na ovo ime, pa će vam on dati ispunjenu obavještenja. Odmah da vam kažem da su UNESKO-va sredstva mala, i uglavnom su namenjena pokrivenju troškova sastanaka i slič. Nadam se da ćemo se vidjeti prilikom moje sljedeće posjete Beogradu u januaru 1980. Mnogo sreće u Novoj godini želi vam Herta Grover.

Dear Frank,

Thank you for your card from Spain.

I am glad to see that your activity in lecturing on graph theory is continuing quite well.

I think that it was very useful that many people here in Belgrade and other places have heard your lectures and have met you.

Unfortunately, after your departure from Belgrade I was very busy with private things (related to the new apartment) so that I had no time to consider seriously the problems you have proposed for possible joint papers. As soon as I elaborate something I shall write to you.

With kind regards

Belgrade, January 19, 80

Yours sincerely
Dražen Bešković

January 19 80

Dear Mr. Teichert,

Thank you for your letter of December 10, 1980.

I am appologizing for the delay in answering this letter, which has been caused by some private reasons. Unfortunately, I do not have the paper [Te Ya]; I have seen it somewhere abroad. However, I am sending you a relevant paper of R. Šoharovski. If I can help you in any way, please, feel free to write again to me.

With kind regards

Yours sincerely
D. Wehlic

University of Waterloo



Waterloo, Ontario, Canada
N2L 3G1

Faculty of Mathematics
Department of Combinatorics
and Optimization
519/885-1211

January 24, 1980

Dr. D. Cvetkovic
Faculty of Electrical Engineering
University of Belgrade
Bulebar Revolucije, 73
P.O. Box 816
11001 Belgrade
Jugoslavia

Dear Dr. Cvetkovic:

Thank you very much for your letter enquiring about catalogues of graphs, and informing me of your forthcoming visit to the USA and Canada.

A magnetic tape with digraphs on up to 6 vertices is still available, and since that was produced we have embarked on some other projects which may be of interest to you. We have available a catalogue of the self-complementary graphs on 12 vertices, and I am planning to generate those on 13 vertices as well. Recently we have completed a catalogue of all the graphs on 8 vertices, and are currently preparing one for the graphs on 9 vertices. Catalogues of these graphs have been available for some time, as you probably know; our reason for repeating this work is that we are testing a programme with which we hope to produce a catalogue of all the graphs on 10 vertices. This has not been done before as far as I know. Even so, our catalogue has one novel feature, which is that the order of the automorphism group is given for each graph, and that the graphs are organized according to their degree sequences - graphs of the same degree sequence are consecutive in the catalogue.

I would be very glad to meet you in May if you are able to visit the University of Waterloo. You mentioned staying for a couple of days, but this seems rather a short time, as I am sure that we will have a lot to talk about. Is there any chance that you can stay longer? I would be very glad to take care of your expenses during your stay here.

I look forward to hearing from you again.

Yours sincerely,

A handwritten signature in cursive script that reads "Ronald C. Read".

RCR/js

R.C. Read

Kragujevac, 24.1.1980.

Dragi Dragoše

U prilogu Ti šaljem jedan odlomak iz rukopisa moje teze koji sadrži formulaciju, dokaz i diskusiju Teoreme 8.2 o broju stabala u jednoj klasi grafova. Molio bih Te da kada nadješ vremena ovaj tekst pročitaš, jer i dalje smatram da ovaj rezultat vredi da bude zabeležen u nekom (inostranom) časopisu. Bio bih vrlo sretan kada bi ovo moglo da posluži i za neki zajednički rad.

Takođe šaljem separat jednog nedavno objavljenog rada grupe autora.

U očekivanju Tvojih komentara

Srdačni pozdravi

Jovan

Beograd 28.1.1980.

Dragi kolega Dobrić,

Šaljem Vam kopije tri pisma upućena
raznim ličnostima sa Vošeg fakulteta. Pošto
mi na jedno od njih nisam dobio odgovor, molio
bih Vas da proverite da li su ona pisma stigla

Kao što vidite iz ovih pisama planiram
u maju i junu jedno studentsko putovanje ali sredstva
još nisu odobrena. Ako bi se put ostvario verovatno
bih došao u Waterloo sredinom juna. Da li ćete Vi tade
biti tamo.

Uz pred, ja ne znam tačno gde je Waterloo.
Je li tačno da je to u blizini Toronta.

Unapred sam Vam zahvalan na pomoći.

Mnogo pozdrava

Dragoš Beković

11000 Beograd,

Lamartinova 44

28.1.1980

Prof. Y. Alavi
Western Michigan University
Department of Mathematics
Kalamazoo, Michigan 49008
USA

Dear Professor Alavi,

I am not yet in position to confirm definitively my arrival at Kalamazoo conference because the decision of the corresponding institution, here in Belgrade, on my travelling expenses has not yet been taken. Nevertheless, I expect a positive decision and I intend to present at your conference one of the following two papers of mine:

1. A programme for the use of computers in further development of graph theory,
2. (with I.Gutman) Further extensions of the spectral method for determining the number of spanning trees.

Titles are tentative and the research is in due course. Depending on the results obtained I shall later decide which paper to present.

With kind regards,

Yours sincerely

D.Cvetković

Jan. 29, 1980

Dear Dragoš,

I apologize to you for taking more than 5 months to answer your letter. I have continually forgotten to bring my map in to my office in order to make the enclosed copy for you. I am pleased that you will be in this country and hope that you will be able to visit East Lansing. If you can come to East Lansing, you should stay with Sue and me at our house. Will Zora and Mladen be with you? If you come to see us, you can probably speak in our graph theory seminar. Perhaps even the department can find some money to invite you to give a colloquium. Let me know about your schedule. Perhaps the best time to come here would be after (or during) your time in Kalamazoo.

Thank you for your comments on locally isomorphic graphs and my paper. I have not mentioned Zykov as it seems to me that the problem is a natural one which has occurred to many others than he. For instance, the first place I saw such questions considered was in work of Buekenhout + Hubaut. It is unfortunate that many of the papers on related topics are difficult to find.

If we do not see you in East Lansing, then I

will see you at the conference in Kalamazoo.

Sue joins me in sending our best wishes to you and your family.

Yours sincerely,

Jon Hall

University of Waterloo



Waterloo, Ontario, Canada
N2L 3G1

Faculty of Mathematics
Department of Combinatorics
and Optimization
519/885-1211

February 5, 1980

Mr. D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije 73
P.O. Box 816
11001 Belgrade - Yugoslavia

Dear Mr. Cvetković:

Thank you for your letter concerning my reference system.

The book "Forward Citations in Graph Theory" is out of print, but "Forward Citations in Applied Graph Theory" is still available from the Descartes Foundation, Faculty of Mathematics, University of Waterloo at a cost of \$30.00.

My interactive system is no longer suitable as the available computers at Waterloo cannot handle the enlarged size of the system on a cost effective basis. For this reason I have modified my approach in enlarging the system - but it is no longer interactive. If you are interested I will explain my new approach when you visit Waterloo in May.

Yours sincerely,

A handwritten signature in cursive script that reads "G. Berman".

GB/js

G. Berman

Beograd 5.2.1980

Dear Mr. Ruiz,

Thank you for your letter of 14.12.1979.

In the meantime I sent you a copy of my thesis. For further information on graph spectra the best way for you is to order American edition of my book on graph spectra:

D. Cvetković, M. Doob, H. Sachs, Spectra of Graphs - Theory and Application, Academic Press, New York - San Francisco - London 1980

I have an uncovered copy of the book. In these days they must have started the distribution of the book.

Concerning your note on self-complementary graphs, I would suggest to look at my thesis at p. 19 (where spectral properties of self-complementary graphs are mentioned) and at pp. 37-39 (where some operations similar to lexicographic product are defined) and to try to extend your results. If I remember well, somebody proved that NEPS of vertex transitive graphs is vertex transitive (this should not be hard to prove).

Here I work together with S. Simić (who made his doctor thesis last year on graph equations; c.f. *J. Graph Theory* 3(1979), no. 4) and do I. Gutman, who is a chemist.

Beograd 5.2.1980.

Poštovani drugovi,

Bio sam veoma iznenađen kada sam nedavno u časopisu "Matematika" 8 (1979), nr. 2, 17-27, ugledao odštampan moj članak "Teorija grafova u nastavi matematike" koji je inače objavljen u Zborniku predavanja održanih na VI seminaru u Prizrenu (seminar Zvezduice viših škole SR Srbije).

Molim Vas da mi objasnite kako je došlo do preštampavanja ovog članka jer ja o tome niste nismo obavestili. Da li postoje separati za odštampani članak, da li mi pripada izvesni honorar itd.?

Se pozdravam

Dragoš Petrović

Beograd, February 7, 1980

Dear Mr. Seidel,

As you know, my father suddenly died last December. The whole family is sad but it is especially so with my mother. Therefore I appreciate very much your nice and encouraging letter, you sent to her.

What is new with you? Is your catalogue of 2-graphs, you were preparing last summer, ready? I certainly would like to have a copy of it.

Book on graph spectra is printed I have a copy of it but without covers. Hopefully, they started the distribution in these days.

In last months I got interested in algorithmical aspects of graph theory. I shall write to Mr. Bussemaker and ask for some advice and help.

I would appreciate very much if you ask Harma to send me a copy of Kronecker's article from *J. Reine Angew. Math.* 53 (1857), 173-175. (You said you had all Kronecker's works in your library).

I was very happy to hear that your mother is in good health. We are very sorry that she was ill during our stay in Eindhoven. On the other hand, we appreciate very much your hospitality in those days.

Kind regards also to your wife
Yours sincerely,
T. P. ...

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

February 15, 1980

Professor Dragos Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revoluciji, 73
P. O. Box 816
11001 Belgrade - YUGOSLAVIA

Dear Professor Cvetković:

We have just realized that, due to an oversight on our part, your name was not included on the list of speakers for the 4th International Conference on the Theory and Applications of Graphs to be held at Western Michigan University. In all honesty, I must explain that your letter of acceptance to our invitation was misplaced. We are very sorry if this caused confusion, and sincerely hope you are still planning to attend and speak at our conference.

We hope to hear from you in the very near future.

Sincerely,

L. Lesniak - Foster

L. Lesniak-Foster

LLF/mej

University of Waterloo



Waterloo, Ontario, Canada
N2L 3G1

Faculty of Mathematics
Department of Pure Mathematics
519/885-1211

15-II-1980

Dragi kolega Cvetroviću,

Dobro sam pre desetak dana vaše pismo od 28-I-1980. Prvo napravili ste grešku u mojoj adresi: ja sam u "Department of Pure Mathematics", a ne u "Department of Combinatorics and Optimization". No to je sitnica.

Meni je neprimatno da pitam ta tri profesora da li su dobili vaša pisma. Sigurno je da jesu, ja u to ne sumnjam. Pošto se češće vidam sa Edmonds-om pitao sam njega da li se seća da li je dobio vaše pismo. No pošto je to bilo u Novembru prošle godine on se nije mogao setiti. Ja sam mu pokazao kopiju pisma što ste mi poslali, on je pročitao i zamolio me da kada vam pišem da vam poručim da ne postoji nikakav originalni članak niti ikakva druga referenca.

Waterloo je oko 100 km. zapadno od Toronta. Ja se mislim da ovog leta opet putujem za Evropu i da navratim do Jugoslavije da obiđem rodbinu; tako da još ne znam da li ću biti ovdje u junu. U svakom slučaju ako budete dolazili u Waterloo javite se.

S bugarskim pozdravom,

D.Ž. Djoković

Beograd, February 18, 1980

Dear You,

Thank you for your letter of January 29 with a map of Michigan.

I am not yet in position to confirm definitely confirm my arrival to USA, since my University has not yet decided about travelling expenses. Nevertheless I am optimistic in that sense. If I come I shall come alone, without my family.

My plans are as follows. I shall come to Detroit ~~and~~ on May 3 and Prof. Harary promised to meet me at airport. I shall stay with Harary until May 6 and give a lecture in his seminar on May 5. After that I shall be in Kalamazoo of course.

Since my intention is to visit ~~as~~ and meet as many places and persons as possible during my trip. I accept your kind invitation to visit East Lansing for a couple of days after Kalamazoo conference. I would be pleased if I would have the opportunity to give a lecture at your colloquium. I would propose the following three areas: graph equations, graph spectra and graphs in matrix theory. I would propose to you to choose one of these topics for my lecture.

By the way, my book on graph spectre has already

been printed and should appear in these days, The publisher for most countries is Academic Press. A bibliography of graph equations has recently appeared in J. Graph Theory, and your name is mentioned there. Do you have some problems more which could be interpreted as graph equations?

After the stay in Michigan I plan to visit Winnipeg, Waterloo and New York. What do you think, is the route Chicago - Winnipeg - Toronto - New York good? I would like to see Chicago for non-mathematical reasons ~~but~~ should I continue starting from Detroit instead of Chicago? What is nicer, Detroit or Chicago? Of course, I can spend in Chicago (or Detroit) only one or two days? If you have any advice concerning my route, write as soon as possible.

With kind regards also to your wife

Yours sincerely
Dragos Iacob
with family

O b a v e š t e n j e

Prof.D.Cvetkević održaće tokom letnjeg semestra 1979/80 god. na Prirodno-matematičkom fakultetu u Beogradu specijalni kurs iz

T E O R I J E G R A F O V A

Kurs će se držati sa dva časa nedeljno u prostorijama Instituta za matematiku u zgradi Prirodno-matematičkog fakulteta na četvrtom spratu. Prvi časovi počinju u utorak 26.2.1980. god. u 16 časova.

Pozivaju se zainteresovani studenti i postdiplomci sa Elektrotehničkog fakulteta da posećuju ovaj kurs.

Beograd 18.2.1980.

Iz Zavoda za
primenjenu matematiku

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

February 20, 1980

Professor D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P. O. Box 816
11001 Belgrade
YUGOSLAVIA

Dear Professor Cvetković:

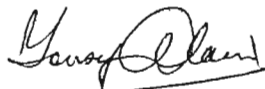
Thank you for your letter of January 28, 1980 which I received today. We sincerely hope that it would be possible for you to come to the International Conference here. Unfortunately, we still have not received any outside funding of our grant requests.

Concerning your conference talk (~~20-25~~ minutes) which-ever of the titles you would like to present is fine with us. If you have no preference yourself, then we would (just a little bit) prefer the first one (on use of computers ...)

Please let us know if you would need any further information.

Looking forward to your visit.

Sincerely,



~~Yousef Alavi~~
Co-Director

YA/mej

Mülheim, 20. februara 1980.

Dragi Dragose[✓]

Saljem Ti traženi deo za Sachsa. Nadam se da će stići ispravan.

Ja sam tek juče počeo da radim ovde, jer je prekjuče bio karneval. Dobio sam pismo od Godsila u kome mi javlja da će od početka marta da bude u Leobenu, valjda kod Imricha. Godsil mi nije napisao svoju adresu, a ja Imrichovu nemam, pa koristim priliku da Te zamolim da mi najhitnije pošalješ Imrichovu adresu u Leobenu.

Inače, baš je zgodno što Godsil sada dolazi u Leoben, jer mi je to usput i sigurno ću ga posetiti pri povratku u Jugoslaviju.

Za sada nema ništa naročito. Očekujem da mi se brzo javiš; takodje se nadam kopiji o onim ruskim radovima. Ovde je matematički deo biblioteke vrlo mršav.

Verovatno danas ću otkucati i poslati prikaz Tvoje knjige za Theoretica Chimica Acta.

Srdacni pozdravi

Jvan

p.s. Ono silno tituliranje na koverti je zato sto je ovo moje prvo službeno pismo.

Valparaíso, February 20, 1980

Dr. Drago Cvetković
Department of Mathematics
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade - Yugoslavia

Dear Prof. Cvetković:

Thank you very much for your thesis. It is a very valuable work. I'll surely buy your book on graph spectra. A lot of work have been done on it!

I want to take profit of your patience again. As I interested on self-complementary graphs I would like to have your work

"The generating function for variations with restrictions, and paths of the graph and self-complementary graphs"
Ibid N° 320 - N° 328 (1970) 27-34.

Your suggestion about the NEPS operation seems very promising to get new results. But in order to get a better understanding and insight please read the works 13, 14, 15, 16 and 20 (see the numbers at the references of the article "Graphs and their spectra")

Thank you beforehand

With all the best wishes

Sergio Ruiz

Instituto de Matemáticas
Univ. Católica de Valparaíso
Valparaíso, Chile

P.S. Here, we are very worried by the health of your president Gito. I hope he will be better soon. The world do not want to lose a great man!

22.2.1980

Prof. R.C. Read
University of Waterloo
Faculty of Mathematics
Department of Combinatorics
and Optimization
Waterloo, Ontario, Canada N2L 3G1

Dear Mr. Read,

Thank you very much for your letter of January 24 and your kind invitation to stay in Waterloo. My plans are not yet fixed and I shall inform you about them as soon as possible. It may occur that I come to Waterloo in the first half of June instead of May. I do hope that you will be in June in Waterloo.

As far as the production of graph catalogues is concerned, an idea would be to order (undirected) graphs lexicographically according to their spectra, although I do not know how to order cospectral graphs. I am enclosing a relevant reprint and a list of connected graphs on 6 vertices.

Some time ago I received from Professor A. Faradžev, from Moscow, his interesting book "Algorithmical investigations in combinatorics" (in Russian), where he describes his efforts in generating several classes of graphs. For example, he produced self-complementary graphs on 12 vertices for 15 hours on an ICL4-70 computer.

With kind regards,

Yours sincerely

D.Cvetković

1 BERLIN 45, den 25. II 1980.
HOLBEINSTRASSE 48
RUF 833 6219

Dragi Dragoš

U proputovanju kroz Berlin našao sam jedan podatak koji nam može biti značajan.

Ono što smo mi uslovno nazivali "bual" Harary je nazvao "inner dual". Evo relevantnog citata:

F. Harary and H. Harborth "Extremal animals" J. Combinatorics, Information & System Sci. 1 (1976) 1-8.

The skeleton of an animal is defined as its inner dual. That is the graph obtained when we take the center of each cell as a point and join a pair of these points by a line if and only if their cells have a side in common.

Mi bismo svakako trebali da prihvatimo ovu razumnu terminologiju kada govorimo o $t(G)$,
Srdačni pozdravi

Beograd, 29.2.1980.

Poštovani prof. Težak,

Na molbu dr M. Demića napisao sam članak
"Contributions of Yugoslav authors to the development
of graph theory" za časopis *Scienze Yugoslavica*, u
prilogu dostavljen rukopis članka (30 str.). Slike
za članak ću Vam poslati u ponedjeljak.

Molim Vas da razmislite mogućnost objavljiva-
nja članka u Vasem časopisu.

Sa poštovanjem

dr Stjepan Vukobratović,
univ. prof. Elektrotehničkog fak.

Adresa:

11000 Beograd,
Lamartinova 44

Mülheim, 2.III 1980.

Dragi Dragoše

Juče sam dobio Tvoje pismo. Hvala na kopiji članka iz SIAM Rev.

1. Raduje me da si dobio mrežicu za Sachsa. Medjutim, nije dolazilo u obzir da mu je odavde pošaljem. Uostalom, tada je nikada ne bi dobio.

2. Mnogi se raspituju za Tvoju knjigu. Ja svima navodim podatak Academic Press 1980. Da li je knjiga već izišla? Već pre nedelju dana sam poslao prikaz vaše knjige u Theoretica Chimica Acta.

3. Zaboravio si da mi pošalješ Imrichovu adresu. No u medjuvremenu sam je ionako našao. Ipak, zlu ne trebalo, kada mi pišeš ponovo, navedi je.

4. Javio sam Ti se prilikom svog nedavnog boravka u Berlinu, gde sam našao naziv "skeleton of the animal". Sledeći dan smo te Ruch i ja nazivali telefonom, ali na žalost tada nikog nije bilo kod tebe kod kuće.

Radi se, naime, o sledećem. Ruch i ja smo uspeli da nadjemo karakterizaciju onih nizova prirodnih brojeva koji odgovaraju stepenima čvorova bihromatskih grafova. Rezultat je zaista elegantan, i u vezi je s Ruchovim parcijalnim uredjenjem.

U nama dostupnoj literaturi nismo našli ništa slično. Zato nas je jako zanimalo da li uopšte postoji karakterizaciju stepena čvorova bihromatskih grafova. Meni se kao kroz maglu čini da je Šokarovski tako nešto radio. Da li bi bio dobar da nam jednostavno javiš šta Ti znaš o tome.

5. Naišao sam na još jedan ~~članak~~ članak koji bi mogao da bude za Tebe veoma zanimljiv. To je: A.F.Antippa and N.K.Toan, "Topological solution for systems of simultaneous linear equations", J.MATH.PHYS. 20 (1979) 2375-2379. Koliko ja vidim, oni daju sasvim originalni i do sada nepoznati pristup ovoj problematici. Trebalo bi da ovo obavezno pogledaš, naročito s obzirom na knjigu koju spremaš.

6. I na kraju, o članku u SIAM Rev. Tu zaista postoji trag polinoma sparivanja. Naime na str. 33 se navodi Narzulaev [N1]. Njegov polinom je poopštenje polinoma sparivanja. Naime za izbor:

$$\alpha = 1, \quad \gamma = 0, \quad \lambda = -1$$

i ~~početni~~ početni uslov: $\phi(E_n) = x^n$, pri čemu je E_n graf bez grana i sa n čvorova, postaje Narzullaevljev polinom

$$\phi(G) = \alpha \phi(L_\alpha) + \gamma \phi(L_\gamma) + \lambda \phi(L_\lambda)$$

jednak polinomu sparivanja. Obavezno bi trebalo pronaći taj rad, mada ja sumnjam da će se u njemu naći nešto značajno. Bio bih Ti zahvalan ako bi mi javio šta je referenca [N1], iako nju ovde sigurno neću moći nabaviti.

7. Raspitaću se o tome kako ovde koriste ^mkomputere za dobivanje hemijskih informacija, pa ću Ti javiti.

Srdačni pozdravi

Trau



OOOUR ZAVOD ZA UDŽBENIKE

n. 501. 0



REDAKCIJA ČASOPISA "MATEMATIKA"

Petra Preradovića 3

Telefon: Centrala 512-144, 31-100

Direktor: 33-728 i 35-328

Redakcija: 30-829 i 38-082

Telex: IKPRES YU 41-326

Telegram: SVJETLOST — Sarajevo

Zirom račun 10102-603-6051 kod SDK Sarajevo

Poštanski fah 129

Naš broj: 198..... god.

Sarajevo, 3. III 1980. 198. god.

Poštovani družice Cvetkoviću,

Izvinjavamo se što Vam nismo odmah odgovorili na Vaše pismo.

Ovom prilikom želimo da Vas obavijestimo da smo Vaš članak "Teorija grafova u nastavi" objavili u broju 2/79 našeg časopisa jer smo među člancima, koje smo preuzeli od prethodnog izvršnog izdavača, dobili i rukopis Vašeg članka /u prilogu Vam dostavljamo kopije prve i poslednje stranice/.

Posebno napominjemo da Vam primjerek broja časopisa u kome je članak objavljen kao i ugovor o autorskom honoraru nismo poslali jer nismo imali Vašu adresu.

Ovom prilikom Vam šaljem broj 2/79. časopisa, a ugovor ćemo poslati naknadno.

Zahvaljujemo na saradnji.

ZA REDAKCIJU

Odgovorni urednik

Meauan
Rafiz Džananović

Beograd 3.3.1980.

Poštovani prof. Terzić,

Pre nekoliko dana sam vam poslao rukopis "Contributions of Yugoslav authors to the development of graph theory". Sada vam šaljem crteže za taj članak kako sam obećao. U prilogu se nalaze crteži Fig.1 - Fig.6.

Molio bih vas da mi crteže, po mogućnosti, vratite kako se napravi obrisak.

Sa poštovanjem

D. Behtović

Beograd 10.3.1980.

Dragi kolega Đorđić,

Hvala na pismu od 15.2.1980. kao i na informaciji o literaturi na čemu zahvaljujem, prof. Edmundsu. R. Read i G. Beruan su u međuvremenu odgovorili tako da je samo ispalo da sam bio nestupljiv hado sam samo pisao. Ne plašio sam se da ne pronađu neku sistematsku grešku hada in ličnosti sa istog univerziteta ne odgovaraju.

Nadajući se da ćemo se moći ipak sastići u Weobolu u podravskoj U-

Đ. Đorđić

Beograd 10.3.1980.

Dragi kolego Lukiću,

Već pisama dožinu u posebnoj fascikli

i, kada mi to vreme dopusti, pogledam Vaše rezultate. U vezi "problema 3 boje" moram Vam reći da rezultat nije nov. No primer, u knjizi: J. A. Bondy, U. S. R. Murty, Graph theory with applications, Macmillan Press 1976, na str. 159 nalazi se sledeći zadatak: 9.6.2. show that a plane triangulation G is 3-vertex colourable if and only if G is eulerian. Za dugo Vaše navode rasod nemam komentara.

U pisumu Vam šaljem separat jednog rada koje je citiran i još neapublikirani rad.

Kada je sada Vaš status? Koliko razumeam iz pisama, ne radite više na Edouardslom fakultetu?

So pozdravom

J. Behtović

12.3.1980

Prof. M.F. Capobianco
St. John's University
300 Howard Avenue
Staten Island
New York 10301
USA

Dear Mr. Capobianco,

Thank you very much for your letter of December 6.

As far as my arrival in New York is concerned, it is ~~almost~~ quite sure that I will come on Monday, April 28, or Thursday 29, and that I will stay until Saturday May 3. I would ask you to recommend me a hotel (not luxurious) and later, once you know the exact date of my arrival to book a room for me, if you think it is necessary.

My wish is to discuss the graph equations with you. I can deliver a lecture on graph equations, with the titled, say, "Some results on graph equations". Or, if you prefer it, I could speak about graph spectra (my book on spectra has, eventually, just come out) or graph theoretical foundations of matrix theory.

With kind regards,

Yours sincerely

Dragoš Cvetković



The University of Michigan

DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING

ANN ARBOR, MICHIGAN 48109

March 17, 1980

(313) 764-6485

Dr. Dragos Cvetkovic
Lamartinova 44
11000 Beograd, YUGOSLAVIA

Dear Dragos,

Gary Chartrand just told me that your invitation to Kalamazoo is official. In order to know when you will be the guest in my house, and we have a room ready for you to sleep in, please let me know the exact date when you plan to arrive in Detroit Airport. And either I personally or one of my students will meet your plane and bring you to Ann Arbor. After that you can drive with me in my car from Ann Arbor to the Kalamazoo meeting.

Yours cordially,

Frank Harary

FH/dal

When will your book with Doof and Sachs appear?

Prof. J.M.H. Simoes-Pereira
Department of Mathematics
Hunter College
City University of New York
695 Park Avenue
New York, N.Y. 10021

Dear Professor Simoes-Pereira,

I wish to inform you that I shall come to New York on Monday, April 28, in the afternoon. I shall stay in New York until May 2 and afterwards I shall to proceed to Ann Arbor, at Kalamazoo. I shall deliver a lecture on graph equations at St. John's University. Professor M.F. Capobianco booked a room for me at the Edison Hotel.

It would be nice to meet you in New York, if possible. If you have any message for me you can phone Mr. Capobianco (school 447-4343, ext. 296, home 236-7343).

I am apologizing for not having written you earlier, but my travelling plans were uncertain until the very last moment.

With kind regards,

Yours sincerely

D.Cvetković

27.3.1980

Prof. L. Lesniak-Foster
Western Michigan University
Department of Mathematics
Kalamazoo, Michigan 49008
USA

Dear Misis Lesniak-Foster,

Thank you for your letter of February 15. I have not immediately answered your letter since I received also a letter from Professor Alovi of February 20, wherefrom I gathered that you know about my intention to come to your Conference.

I would like to present my paper entitled "A project for using computers in further development of graph theory" at the Conference. The abstract of this paper is enclosed herewith.

I wish to share a double room with another participant in Red Roof Jun or Holiday Inn West, and particularly I would like that it be M.Doob. Please check whether he had already booked a double room ~~for~~ for the two of us. Immediately before the Conference I shall be the guest of Prof. Harary in Ann Arbor and I ~~shall~~ will come to Kalamazoo very likely with him on May 5.

With kind regards,

Yours sincerely

D.Cvetković

Beograd 17.3.1980.

Dragi Joane,

Dobio sam tvoje pisma od 25.2. (iz Beograda) i 2.3.1980. Evo kratkih odgovora na tvoje pitanja. Odlucio sam da na konferenciji u Kalamasoo prikazem moj novi kompjuterski projekat a ne one rezultate o stablima. Te rezultate bih mogao prikazati na konferenciji u Čehoslovačkoj u septembru (do budem tačno izao) ili icemu cloveč mozdje poslati sa odgovorima. U svakom slučaju nastojacu da pre odletha u Americu napišem prvu verziju tog clanka o stablima.

Knjiga o splitima je izasila! To sam ti poslao jedan primerak. Nadam se da si dobio u meduvremenu.

Ispravna adresa: W. Zurch, Institut für Mathematik, Montanistische Hochschule, A-8700 Leoben, Austria.

Je magistarskog rada Ščernovskog novodimov teoremu C. Berge-a:

Particije $\Pi = (d_1, d_2, \dots, d_p)$ $d_1 \geq d_2 \geq \dots \geq d_p$,

$p \geq 2$ nenegativnog parnog broja $2q$ je bilkovatost grafivke particije (tj. postoji bilkovati graf sa tim stepenima čvorova) ako se niz $\Pi = (d_1, d_2, \dots, d_p)$ može podeliti na podnizove $\Pi_1 = (e_1, e_2, \dots, e_{p_1})$ i $\Pi_2 = (f_1, f_2, \dots, f_{p_2})$, $e_1 \geq e_2 \geq \dots \geq e_{p_1}$, $f_1 \geq f_2 \geq \dots \geq f_{p_2}$, $p_1 + p_2 = p$,

tako da važi:

$$(i) \quad \sum_{i=1}^{P_1} e_i = \sum_{j=1}^{P_2} f_j = \frac{1}{2} \sum_{k=1}^p d_k ;$$

(ii) Za svaki ceo pozitivan broj $r \in \{1, 2, \dots, P_2 - 1\}$
važi

$$\sum_{i=1}^r e_i \leq \sum_{j=1}^{P_2} \min\{r, f_j\} ;$$

(iii) Za svaki ceo pozitivan broj $s \in \{1, 2, \dots, P_2 - 1\}$
važi

$$\sum_{j=1}^s f_j \leq \sum_{i=1}^{P_1} \min\{s, e_i\} . \quad \circ$$

Referenca [N1] glasi:

Kh. N. Narzullaev, The number of incomplete colorings of the vertices of a graph, Kiber., 4(1968), no. 2, pp. 100-101; Trans: Cyber., 4(1968), no. 2, to appear.

U prilogu Ti šaljem na potpis izvornu sarodnicu kojom se odlašćuje "Neuro kupice" do ceo bonus za kupicu isplati meni a ja do podlitem sarodnicino odgovarajući deo. Ujedno Ti dostavljam predlog obrocne bonusara na osnovu kojeg bi trebalo da Ti isplati 2820,00 din. kada izdovaš isplati ceo bonus (po izroku kupice u maju ili junu), Molio bih Te da izvornu potpisanu odluku pošalješ natrag.

So pozdravom

Draško



The University of Manitoba

Department of Mathematics and Astronomy

Winnipeg, Canada R3T 2N2

March 19, 1980

Dr. Dragoš Cvetković
Lamartinova 44
Belgrade, Yugoslavia

Dear Dragoš,

I have received not only a letter from you but, on the same day, my copies of the book from VER. It was quite a pleasure to see it in print! I wrote to Academic Press last week, told them about the conference in Kalamazoo in May, and suggested that it would be a good place to try and sell our book. I received a telephone call from them today, and they will have the book on display there. It seems that there was a mistake made in the DDP in the printing of the title page (Academic Press version), and, as a result, each of the 1000 copies must be rearranged by hand. Because of this, the final copy will not be on display, but rather an "advance copy" which will not be of quite as good quality. Nonetheless, I think it is quite good that the book will be on display.

I have enclosed a further article concerning our friend who wanted to return to Yugoslavia. More seriously, I have also enclosed a copy of my travel plans (because of the different time zones I really do arrive in Chicago 25 minutes before I leave Kalamazoo). I am returning on Sunday, even though the conference ends on Friday. This is to take advantage of special air fares that apply if your trip includes a Saturday night (the difference in air fares is approximately twice the cost of hotels and dining). So if it works out conveniently, you can book on the same flights. I am staying at the Holiday Inn West and have already booked a room. If you want to stay there, let me know and I'll see if my room can be changed.

I'm not sure what I'll talk about at the conference, but I suppose I'll decide soon. I guess a spectral topic would be in order, considering that the book will be on display there.

What type of computer are you using for your graph theory

program, and what language are you using? I'm sure that
compatibility between our systems will be no problem. Bring what
information you can (a tape, perhaps?).

Best wishes to the family. I'll be writing again soon.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Michael".

Michael

27.3.1980

VEB Deutscher Verlag
der Wissenschaften
108 Berlin
Joh. Dieckmann str. 10

Dear Sirs,

Please find enclosed a letter of Directors of the Graph Theory Conference which will be held in Kalamazoo from May 6 - 10. I would ask you to send a copy of the book "Spectra of Graphs - Theory and Application" to the exhibition mentioned in the enclosed letter, if possible.

With kind regards,

Yours sincerely

D.Cvetković

27.3.1980

Prof. Y. Alavi
Western Michigan University
Kalamazoo, Mich. 49008

Dear Pro Alavi,

Thank you for your letter of February 20.

I have just sent a letter to Prof. L. Lesnika-Foster with an abstract of my paper "A Project for using computers in further development of graph theory" which is prepared for your Conference.

Together with the last issue of GTN I received an announcement for an exhibition of graph theory books which will be held during the Conference. I instructed the German publisher of my book on graph spectra and send a copy to Kalamazoo. Incidentally, I have published a couple of graph theory books in Serbo-Croatian and Macedonian. If you think that this will be attractive for the visitors, I can bring with me these books or send them in advance.

With kind regards,

Yours sincerely

D.Cvetković

Beograd March 31, 1980

Dear Frank,

Thank you for your letter of March 17.

In a few days I shall know exactly about my arrival at Ann Arbor. Almost quite sure I shall come on May 3 in the morning, not too early, by a plane from New York. (I shall fly from here to New York on April 28).

I am still thinking of coming a day earlier (especially if I do not find A.Y. Hoffman in New York) because I would like to visit Mathematical Reviews in Ann Arbor ~~and~~ and I do not know whether it will be time on Monday, May 5, for that. Except for a general interest just to see such an important institution as MR, I would like to make at least non-formal contacts with somebody here because of my plans to make a graph theory bibliography within the computer system GRAPH which is described in the enclosed paper. Since you are a consultant of MR, I hope you can give me an advice or help me with respect to this thing.

The enclosed paper "A project for using computers in further development of graph theory" is prepared for the Ralamaroo conference. This is only the first draft; certainly many things should be improved. Nevertheless I am sending you it so early because I am certain it will interest you.

I am planning to deliver a lecture under title "A graph-theoretical approach to ^{the} matrix theory" in your seminar on May 5. But if you prefer I can talk about "Constructions of graphs by means of their spectra" or "Some results on graph equations". How long should the lecture last? 45-60 minutes?

The book: D. Cvetković, M. Doob, H. Sachs, Spectra of Graphs - Theory and Application, Deutscher Verlag der Wissenschaften Berlin 1980; Academic Press, New York - etc. 1980

did appear a couple of months ago. At least it can be found in bookshops in East Germany. I hope that Academic Press also has started the distribution in West countries.

Anyhow I shall bring with me a couple of copies.

Since you are in the contact with organizers of the conference, tell them please when shall I come to Kolarasoo. I told them that I would come here with you probably on May 5.

I am looking forward of seeing you soon. We have a lot to discuss and I am sure that our meeting will be productive in mathematical sense. I am thank full for your kindness and hospitality.

With kind regards

Yours sincerely

D. Cvetković

St. John's University

300 HOWARD AVENUE
STATEN ISLAND, NEW YORK 10301

Division of Mathematics and Science

TELEPHONE:
(212) 447-4343

March 31, 1980

Prof. Dragoš Cvetković
Faculty of Electrical Engineering
University of Belgrade
Belevar Revolucije, 73
Box 816
11001 Belgrade, Yugoslavia

Dear Prof. Cvetković:

Thank you for your letter of March 12. I think that the graph theorists here, I, Buckley, and Molluzzo would prefer to have a talk on graph equations. I believe that the only possible day for the talk would be Thursday, May 1.

I would recommend the Edison hotel in New York. You should reserve a room in advance, either through me or on your own.

Buckley and I will both be going to Kalamazoo.

Looking forward to seeing you. My phone numbers are:

School: 447-4343, ext. 296
Home: 236-7343

Please call me when you arrive.

Best,



Michael F. Capobianco, Ph.D.

MFC/dcw

7.4.1980

Prof. M.F. Capobianco
St. John's University
400 Howard Avenue
Staten Island,
New York 10301

Dear Mr. Capobianco,

As I announced in my letter of March 12 my plan is to come to New York on Monday, April 28. I would come by plane which ~~comes~~ arrives in New York at 16.15 from Belgrade. My wish is to discuss graph equations with you and to deliver a lecture "Some results of graph equations".

Since the time ~~off~~ my departure nears very quickly and since I did not receive any reply to my letter of March 12, I would ask you most kindly to confirm your agreement with this plan by a cable. Then you could inform me by a letter in which way shall we meet. I would appreciate very much if you or some of your collaborators would wait for me at the airport, because it is the first time that I am visiting New York. (I could hold my book "Spectra of Graphs" in hands for the sake of recognition). I am most kindly asking you to book a single room in an average hotel for ~~two~~ nights, Monday- Thursday. I shall very likely fly to Detroit on Friday, May 2. Please send me some telephone numbers where I could reach you, in case we miss each other at the airport.

On the other hand, if this proposal of mine is not convenient to you we shall have another opportunity to see each other in New York about 15th of June on my way back to Yugoslavia. I am planning to come twice to New York since A.J. Hoffman told me that he was not sure to be in New York at the beginning of May. Details of this second variant could be discussed at the Kalamazoo Conference where we shall certainly meet.

2.

If I fail to receive the cable from you until Friday, April 18, I shall not come to New York and I will fly directly to Detroit. Please send the cable to my home address: D.Cvetković, Lamartinova 44, 11000 Beograd, Yugoslavia.

For any case, please note my home telephone number in Belgrade 437-263.

I apologize for not having told you everything about my plans on time.

Looking forward with great interest to your news,

Yours sincerely

D.Cvetković

Beograd, April 7, 1980

Dear Michael,

It took some time to Simic and me to formulate our proposals for improving our paper. Now we are sending second part of it with our notes. In Theorem 5.1 we wanted to avoid your notation $(S_2 W \times S_{a_i}) W \times \Gamma$ from which it is not visible that all a_i 's contribute to the group of G .

In our proof of Prop. 2.4 (we sent it in our previous letter) there is a typing error. In case (i) graph $K_5 - K_2$ is mentioned and it should read $K_5 - 2K_2$.

Now you can prepare the final version after possible your improvements or our improvements. I would propose that you now send the paper to Journal of Graph Theory (in triplicate) or we can both together personally submit it during the conference in Kalamazoo.

Thank you for your letter of March 19 concerning your plans for Kalamazoo. In the meantime I wrote to organizers that I would like to share a room with another participant and if possible with you. A couple of days ago I received a letter

MICHIGAN STATE UNIVERSITY

DEPARTMENT OF MATHEMATICS · WELLS HALL

EAST LANSING · MICHIGAN · 48824

Dear Dragoš,

April 7, 1980

Please excuse me for taking so terribly long to write to you again. I always seem to be so busy.

I hope by now that your travel plans are definite and that your money difficulty is arranged with your university. I spoke with Frank Harary last week who said he was waiting to hear from you concerning your travel plans and arrival date. Gary Chartrand also said that he was hoping to have your talk title soon from you.

As it stands, I gather your talk in Kalamazoo is scheduled for Tuesday morning, May 6, at 10:50 AM. I will probably be able to come down for your talk, but I am doubtful that I will be able to come any other days of the conference. It would probably be best for you to speak here at Michigan State in our Graph Theory Seminar on May 12 (Monday, 4:10 PM. Title: Graph Spectra). You could either ride back here from Kalamazoo with one of the conference participants from our faculty or wait and come here on the weekend sometime. (There is a train from Kalamazoo to East Lansing, I believe, as well as busses.)

Please think about what you would prefer to do and either write to me or tell me when we meet again in Kalamazoo.

I think your trip Chicago/Winnipeg/Toronto/New York is fine. Chicago is better than Detroit.

Regards,
Jon

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

April 11, 1980

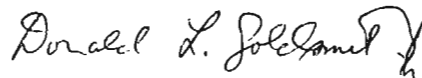
Professor D. Cvetkovic
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade, Yugoslavia

Dear Professor Cvetkovic:

Your letter of March 27 to Professor Alavi has been passed along to me. We would be happy to include the books you mention in your letter in the book exhibit at the Graph Theory Conference.

We look forward to seeing you in May.

Sincerely,



Donald L. Goldsmith
Conference Co-Director

DLG/kmh



The University of Michigan

DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING

ANN ARBOR, MICHIGAN 48109

April 11, 1980

(313) 764-6485

Dr. Dragos Cvetkovic
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade
YUGOSLAVIA

Dear Dragos,

I am delighted to learn from your letter ^{of} 31 March that you will arrive at the Detroit Airport on May 3 or possibly on May 2. Just as soon as you know the exact flight arrival time and flight number, please telephone me from New York at my home number: (313) 663-2700.

Of course I will meet you personally at the airport, or if I cannot do so, then my wife will meet you. It would be very good if you could meet A.J. Hoffman in New York as he is one of the leaders in the spectral theory of graphs, as you know.

I have good news for you concerning your desire to visit Mathematical Reviews in Ann Arbor. The Executive Editor is a very good friend of mine, John Selfridge, and it is now being arranged that you and I can visit there on Monday May 5. Then early in the morning on May 6, you and I and some others will drive together in my new used Cadillac to the Kalamazoo meeting.

Although the semester ends in the middle of April, there will certainly be a few interested people to hear you talk on May 5, Monday. Both of the first two talks which you propose sound so beautiful that I personally and also my very brilliant people, want to hear them. Therefore I request that you talk on a graph theoretical approach to matrix theory in the morning and on the construction of graphs by means of their spectra in the afternoon.

By the way, of course you will be a personal guest in my house rather than staying a hotel.

W

Your book on the spectra of graphs has not yet appeared in the United States. Therefore I especially look forward to receiving a copy from you personally.

I shall now telephone Kalamazoo and tell them that you will be driving there with me on the morning of May 6, in time for the welcoming speeches.

We look forward very much indeed to seeing you again and to being able to offer our hospitality, in small token of acknowledgment of all your kind and generous hospitality whenever we visit Belgrade. With kind regards.

Yours cordially,

A handwritten signature in cursive script that reads "Frank".

Frank Harary

FH/dal

Zielona Góra, 11.04.1980

Dear Professors D.M. Cvetković and S.K. Simić,

Many thanks for sending the copy of your paper. We will be very glad to receive your papers regularly.

If available, we would greatly appreciate a reprint of your articles:

- (1) On self pseudoinverse graphs,
- (2) Graphs which are switching equivalent to their line graphs,
- (3) On the decomposition of the line (total) graphs with respect to some binary operations,
- (4) Graphs which are switching equivalent to their complementary line graphs, and others.

Yours faithfully
M. Borowiecki

»RUĐER BOŠKOVIĆ« INSTITUTE

Bijenička 54, 41001 Zagreb, Croatia Yugoslavia

Dr. Dragoš Cvetković
Lamartinova 44
41000 Beograd

P. O. Box: 1016
Phone: (041) 424-355
Telex: 21383 yu irb zg
Cable: INSTRUBO, Zagreb

Our ref.

Your ref.

Date 10. travnja 1980.

Dragi kolega Cvetković,

Javljam se u vezi Vaše knjige "Spectra of Graphs". Zanima me da li je knjiga izašla iz tiska i kako bih je mogao nabaviti.

Srdačni pozdravi,

N. Trinajstić
Nenad Trinajstić

Beograd 16.4.1980.

Dear Mr. Seidel,

Enclosed is my review of the book you gave me last summer. Please, forward it to the corresponding place.

Please, find also enclosed a copy of my recent paper "A project for using computers in further development of graph theory" which is prepared for the Kalamazoo conference on graph theory and its application which will be held in May this year. I am recently occupied by such topics and this explains why I posed some questions to Mr. Bussemaker a few months ago. Please, show also him this paper, he could be interested.

I am leaving for USA and Canada in a couple of weeks. Most of the time I shall again spend with Doob in Winnipeg. About the middle of June I shall be back in Yugoslavia. I shall very likely meet Mr. Hofmann also; he sent me his telephone numbers and asked to phone him when I come to New York. (It seems that he will come back to New York from Stanford University just when I should come there).

I hope you received a copy of the book on graph spectra. I sent you it some time ago.

What about your plans for coming to Austria and possibly to Yugoslavia in September?

With kind regards

Yours sincerely,



Redakcija časopisa SCIENTIA YUGOSLAVICA
ASOCIJACIJA NAUČNIH UNIJA JUGOSLAVIJE
ASSOCIATION OF THE SCIENTIFIC UNIONS OF YUGOSLAVIA

Zagreb, 1980-04-14

Broj: 21/80/dč

Dr D.M. Cvetković
11000 Beograd
Larmonteva 44

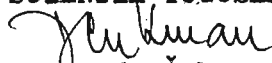
Cijenjeni Dr Cvetkoviću,

U prilogu Vam šaljem prepisan rad i molimo Vas da ga Vi još jednom korigirate. Dr S.Maričić je fusnote 1.2. i 3. skratio u 1. te Vas molimo da pogledate da li se slažete sa skraćanjem.

Ujedno Vam šaljem niz pitanja u vezi referenci na koja bi trebalo odgovoriti što prije kako bi ih mogli dati u prijepis.

Unaprijed zahvaljujemo na saradnji.

Za Redakciju časopisa
SCIENTIA YUGOSLAVICA


Dr Dunja Čukman

TELEGRAF
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tdmt staten island ny 22/21 14 0119p est

d cvetkovic

Lamartinova 44 11000

belgrade

unable to meet you at airport room has been reserved at edison hotel
michael capobianco

col 44 11000



D.Cvetković

15.4.1980

Prof. R.C. Read,
University of Waterloo,
Faculty of Mathematics,
Department of Combinatorics,
and Optimization
Waterloo, Ontario
Canada N2L 3G1

Dear Mr. Read,

The enclosed ~~paper~~ of mine "A project for using computers in further development of graph theory", prepared for the Kolomazzo Conference, explains my interest in meeting you.

I will soon leave for the USA and after the Conference in Kolomazzo I shall be going to Winnipeg (May 12) where I intend to spend about a month. I am planning to come to Waterloo about June 10. I shall, certainly,, write to you from Winnipeg. If you have any message for me please use the address (after May 12):

Prof. M.Doob (For Cvetković)
The University of Manitoba
Department of Mathematics and Astronomy
Winnipeg, Manitoba, R3T 2N2

A similar letter has been sent to Professor G. Berman.
With kind regards,

Yours sincerely

D.Cvetković

Prof. G.Berman
University of Waterloo,
Faculty of Mathematics,
Department of Combinatorics
and Optimization
Waterloo, Ontario
Canada N2 L 3G1

Dear Mr. Berman,

I have a pleasure of enclosing herewith the paper of mine "A project for using computers in further development of graph theory", prepared for the Kolomazoo Conference, which, I think, is an explanation of my interest in meeting you.

I am soon leaving for the USA and after the Conference in Kolomazoo I shall be going to Winnipeg (May 12) where I intend to spend about a month time. I am planning to come to Waterloo about June 10. I shall, certainly, write to you from Winnipeg. If you have any message for me please use the address (after May 12):

Prof. M.Doob (For Cvetković)
The University of Manitoba
Department of Mathematics and Astronomy
Winnipeg, Manitoba R3T 2N2

I have addressed a similar letter to Mr. Read.

Looking forward with great interest to our meeting,

Yours sincerely

D.Cvetković

17.4.1980

Mr. A.J. Hoffman
Thomas Watson Research Center
POB 218
Yorktown Heights, N.Y. 10598
USA

Dear Mr. Hoffman,

Thank you very much for your letter from Stanford University.

I shall arrive in New York, on Monday, April 28, in the afternoon. Professor C.F. Capobianco booked a room for me at the Edison Hotel. I am planning to be in New York until May 2, but I will come again to New York in the middle of June.

Of course, I would use this opportunity to meet you, if possible, I shall phone you as soon as possible, once arrived. If you have any message for me, you can phone to Mr. Capobianco (609-447-4343, ext. 296, or home 236-7343).

With kind regards,

Yours sincerely

D. Cvetković

17.4.1980

Prof. M. Doob
The University of Manitoba
Department of Mathematics and
Astronomy
Winnipeg, Manitoba
Canada R3T 2N2

Dear Michael,

Everything concerning my trip seems to be O.K. and I am looking forward to meeting you again soon.

In order not to carry too much money with me I shall send a few hundred dollars to you on your home address. I hope you will be able to borrow to me some money at Kalamazoo, in case I need it for any reason.

With kind regards,

Yours sincerely

D. Cvetković

18.4.1980

Mr. M.F. Capobianco, Ph.D.
St. John's University
300 Howard Avenue
Staten Island, N.Y. 10301

Dear Mr. Capobianco,

Thank you very much indeed for your cable. Your letter of March 31 came also in the meantime.

I shall arrive at the Airport Kennedy by flight JU 500, at 16.10 local time from Belgrade.

Once arrived, I shall call you immediately.

Looking forward to seeing you soon,

Yours sincerely

D. Cvetković

RESEARCH INSTITUTE OF ELECTRICAL COMMUNICATION
TOHOKU UNIVERSITY
SENDAI, JAPAN

April 18, 1980

Professor Dragos M. Cvetković
Dept. of Electrical Engineering
University of Belgrade
Beograd, Yugoslavia

Dear Professor Cvetković

Recently, Jin Akiyama has recommended me to tell you my result on the characteristic polynomials of line directed graphs. The result appears in Example 3 (page 20) of my paper "Uniformly finite-to-one and onto extensions of homomorphisms between strongly connected graphs" which has been submitted to Discrete Mathematics. So I am enclosing a copy of the manuscript of the paper.

I shall be happy if you are interested in my paper.

Sincerely yours,

Masakazu Nasu

Masakazu Nasu

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

April 21

Dear Professor Cvethković:

I have made arrangements for you to share a room at Holiday Inn West with M. Doob. Professor Doob will be staying at the Holiday Inn the evenings of May 5, 6, 7, 8, 9, 10. I have made reservations for you for May 6, 7, 8, 9. If these are not the correct dates, please notify the Holiday Inn. In any case, it is important that when you check out, you tell the Holiday Inn that Professor Doob will be staying another day. This is to assure that they are aware that the room will not be available for someone else.

Sincerely,

Linda Lesniak - Foster

April 21

Dear Professor Cvethović:

I have made arrangements for you to share a room at Holiday Inn West with M. Doob. Professor Doob will be staying at the Holiday Inn the evenings of May 5, 6, 7, 8, 9, 10. I have made reservations for you for May 6, 7, 8, 9. If these are not the correct dates, please notify the Holiday Inn. In any case, it is important that when you check out, you tell the Holiday Inn that Professor Doob will be staying another day. This is to assure that they are aware that the room will not be available for someone else.

Sincerely,

Linda Lesniak - Foster

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

April 23, 1979

Dr. Dragos Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade - YUGOSLAVIA

Dear Dr. Cvetković:

As you may already know, Western Michigan University plans to host its Fourth Quadrennial International Conference on Graph Theory and Applications during the period May 6-8, 1980. On behalf of the co-directors, it is a pleasure to extend to you an invitation to participate in and speak at this Conference.

Should you be able to accept our invitation, your talk would be scheduled for 25 minutes (which includes time for questions) and should deal with recent, publishable research. Plans call for contributions to appear in a Conference Proceedings.

We are applying for a grant and hope to provide partial support for you. In any case, we certainly hope it will be possible for you to accept our invitation and reply to us by May 30, 1979.

Professor White joins me in sending you our greetings.

Sincerely,



Yousef Alavi

YA/sle

22.4.1980

Dr. Dunja Čukman
Redakcija časopisa Scientia Yugoslavica
ANUJ
Trg Maršala Tita 33
pp. 327
41001 Zagreb

Poštovana kolegice Čukman,

Hvala na vašem pismu od 14.4.1980.

Šaljem Vam tekst članka sa mojim korekcijama. Izmene do Maričića prihvatam i ujedno mu se zahvaljujem na jezičkom poboljšanju teksta.

Izvinjavam se zbog slabog kvaliteta bibliografije. Do toga je došlo što sam pecenio svoje mogućnosti i obećao člana u kratkom roku. U prilogu dajem ponovo sve reference na našem jeziku sa svim dopunama. Naslove sam sada sve dao na našem i na engleskom jeziku, što omogućava da se i naš i inostrani čitalac bolje snadju. U produžetku odgovorio sam i na preostala vaša pitanja.

Sa pozdravom,

D. Cvetković

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195



Department of Chemistry

April 24, 1980

Professor D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
Belgrade - Yugoslavia

Dear Prof. Cvetković:

Here is some of our recent work on networks that you wanted to see. I hope that you find it interesting.

I'm pleased to report that Brendan McKay will be coming to the United States to assume a position at Vanderbilt University. We will continue to collaborate on problems of mutual interest. He is a very smart fellow who will make giant strides in the spectral theory of graphs.

Has your book been published yet? I look forward to buying a copy.

Sincerely,

Bruce E. Eichinger
Professor of Chemistry

BEE:mlk

Enclosure



University of Technology
Address: Den Dolech 2
PO. Box 513
5600 MB Eindhoven The Netherlands
Telephone (040) 4791 11
Telex 51163

Prof.dr. M. Doob and
Prof.dr. D. Cvetković
Department of Mathematics
University of Manitoba
WINNIPEG, Manitoba
Canada.

Your reference	Our reference	Date	Direct external dialling
.	JJS/hr	May 1, 1980	472796
Subject			

Dear friends,

Since I know that you will be together very soon, I address both of you at the same time. Of course the first thing to do is to congratulate you and Sachs with the appearance of your book. It contains an enormous amount of information with many details, and I am sure that the book will serve its purpose, that it, it will be very useful for workers in and outside spectra of graphs. In fact, I received two copies of the book, one from each of you. This may be a misunderstanding, and then I would be ready to hand in my second copy. However, I have a better idea, namely to present the second copy to Willem Haemers. So let us agree on the following. If it was not your intention to send me two copies, then I will pay for the second one, and I will give it to Willem as a present. If it was your intention, then Willem gets the second copy from you!

Things are rather hectic here at the moment. Within a month I will leave for Australia (University of Sydney, c/o D.E. Taylor). Meanwhile, important decisions in science policy (in which I am involved) must be taken. Then, the doctors found out that all my upper teeth should be removed, and there are a couple of further things to be handled before June 2, my day of departure.

I will give Dragos' manuscript on computers, to Frans, as well as my own copy of the book, so that he has something to do while I am away. Scientifically, I am drifting away towards Cubature formulae (on which a student is working), and I still have to write a paper on the shape of the (continental) football. Furthermore, a young man has come to work with me and his main interests are applications of hyperbolic geometry to combinatorics (please inform me if you know of some literature) and the work by A. Neumaier in Berlin (keep an eye on his publications, which are very interesting and important, for instance in Archiv der Mathematik on SRG with smallest eigenvalue $-m$, recently).

In India I met Singhi, Vijajan and S.B. Rao (address: Indian Statistical Institute, Calcutta), who had a few papers on spectra, a.o. on forbidden subgraphs for generalized line graphs. I urgently advised them to get into contact with you, knowing about your paper on the same subject. Hopefully they did contact you. Further, I wonder what your reactions were about Haemers' thesis. Already, I hear from several parts of the world that people are using his booklet.



2

May 1, 1980

Department of Mathematics

Unfortunately, he has no job yet, and he must leave the department in August 1980. You know about his family with 3 kids, which makes it necessary for him to have a permanent job in Holland. Yet, this seems difficult.

I hope you will have a fruitful cooperation again this summer. Is Zora joining? Give my warm regards to your beloved ones.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'J.J. Seidel'. The signature is written in a cursive style with some loops and flourishes.

J.J. Seidel.

P.S. Reading of the project "Graph" made me think of our Tables of two-graphs (I hope that you received this report) and of the following. In Holland some social and political scientists are working on the project GRADAP. Their aim is to use the computer for graph problems related to their sciences and to have a connection to analogous statistical programs. However, their knowledge of graph theory is only ϵ , so I do not believe that this is of any use to you. Yet, I will keep an eye on their progress, and will communicate to you if something reasonable comes out.

A handwritten mark or signature in dark ink, consisting of several vertical and diagonal strokes, possibly representing a stylized 'X' or a similar symbol.

Institut f. Mathematik
Montanuniversität Leoben
A-8700 Leoben
Österreich
12-5-80

Dear Professor Cvetkovic,

As you doubtless already know,
I am now in Leoben. I will be here for about two
years.

Could you please send me a copy of the
paper which you wrote with Gutman and Simić
and which appeared in:

Publ. Elektrotehn. fak. (Beograd) Ser. Mat. fiz. 602-633
(1978) 111-117.

I do not know the title, but I think the paper
is about pseudo-inverse graphs.

With best regards to you & your family

Chris Godsil

University of Waterloo



Waterloo, Ontario, Canada
N2L 3G1

Faculty of Mathematics
Department of Combinatorics
and Optimization
519/885-1211

May 14, 1980

D. Cvetkovic
c/o Professor N. Doob
The University of Manitoba
Department of Mathematics & Astronomy
Winnipeg, Manitoba
R3T 2N2

Dear Dr. Cvetkovic:

Thank you very much for your letter of the 15th April. I am glad to hear that you will be able to visit the University of Waterloo some time around June 10th, and I look forward to hearing from you. As soon as I know for sure just when you are coming I will make arrangements for hotel accommodation etc.

I am sure that we shall have a lot to talk about, since our research interests ~~do~~ overlap quite a bit. In particular, I would like to show you a graph manipulation package that I have developed for displaying graphs on a screen and performing simple operations with them. This would seem to be very closely related to the kind of work that you mentioned in your letter.

I look forward to hearing from you in due course.

Yours sincerely,

A handwritten signature in cursive script that reads "Ronald C. Read".

R.C. Read

RCR/js

University of Waterloo



Waterloo, Ontario, Canada
N2L 3G1

Faculty of Mathematics
Department of Combinatorics
and Optimization
519/885-1211

May 21, 1980

Professor M. Doob (for Cvetkovic)
The University of Manitoba
Department of Mathematics & Astronomy
Winnipeg, Manitoba
R3T 2N2

Dear Mr. Cvetkovic:

Thank you for your letter of April 15 and the copy of the paper you presented at Kalamazoo. It is a very extensive project you are planning. I would like very much to discuss related ideas with you when you visit Waterloo.

However, I will be away from Waterloo on June 10, 11 and plan to return June 12. Please let me know if Thursday, June 12 is convenient for you.

Yours sincerely,

A handwritten signature in cursive script that reads "G. Berman".

GB/js

G. Berman

University of Waterloo



Waterloo, Ontario, Canada
N2L 3G1

Faculty of Mathematics
Department of Combinatorics
and Optimization
519/885-1211

June 2, 1980

Dr. D. Cvetkovic
Department of Mathematics & Astronomy
The University of Manitoba
Winnipeg, Manitoba
R3T 2N2

Dear Dr. Cvetkovic:

Thank you very much for your letter giving me the time of your arrival in Waterloo.

I shall make arrangements with the "United Trails" limousine service for them to pick you up at the airport and bring you to the University of Waterloo. When you get to the airport go to the United Trails desk, which is on the Arrivals level. There will be a driver there who will be expecting you.

I would be happy if you would be my guest during your stay here, and, on the assumption that you have not yet made arrangements for accommodation, I will make arrangements for you to stay at a hotel which is near to the University. (If you have already made arrangements for accommodation, please let me know).

You do not say in your letter for how long you will be staying. If you could let me have this information, if you know it, it would be helpful; but if you are not sure, then it doesn't really matter, and I don't foresee any problems about accommodation.

I have spoken to Professor Djokovic and informed him of the time of your arrival. I also spoke to Dr. Berman, but he, it appears, is going to be away at the time of your visit. I am not sure for how long he will be away, so depending on how long you stay you may still be able to meet him.

I hope you are having a pleasant stay at the University of Manitoba, and look forward to seeing you soon.

Yours sincerely,

A handwritten signature in cursive script that reads "Ronald C. Read".

R.C. Read

RCR/js



The University of Manitoba

Department of Mathematics and Astronomy

Winnipeg, Canada R3T 2N2

June 2, 1980

Dear Mr. Lovász,

Galley proofs for my paper for the proceedings of the Szeged conference have been sent to me to Belgrade. Since I am here in Canada for some time, a colleague of mine did necessary corrections for me. He probably sent the corrections to the corresponding address in Hungary and he sent me a copy of galley proofs. I still have a couple of other corrections, and I would like to add a few recent data to the bibliography. Since I do not know to whom I should send this material, I am sending it to you with the request to send it to the corresponding place if it is not too late. My changes are performed by a blue pen.

Thanking in advance, with kind regards

P.S. In a couple of weeks I shall return to Belgrade.

Sincerely yours

Zsuzsanna Lőrincz

17.6.1980

Mr. Harary F.
The University of Michigan
Department of Mathematics
347 West Engineering Building
Ann Arbor, Michigan

Dear Frank,

Finally I have the tickets for my trip. I shall arrive at the Detroit airport on Friday, May 2, by flight AA519 from New York, at 10.11. I appreciate very much your willingness to meet me at the airport or to send somebody. ~~if anyone~~ not knowing me personally waits for me at the airport, he should look for a man holding the book "Spectra of graphs" in the hands; that will be me.

If some alterations occur, I shall send you a message from New York. If you have any message for me, please send it to M.F. Capobianco, St. John's University, 300 Howard Avenue, Staten Island, New York 10301. His phones are:

School 447-4343 ext. 296

Home: 236-7343

As I informed you by my previous letter I would like to visit MR. For your seminar I am preparing a talk under the title "A graph theoretical approach to the matrix theory". Concerning my computer project GRAPH, one question might particularly interest you.

System GRAPH can work only if a standard graph theory terminology is developed. Since your book is most frequently cited graph theory book, it is quite reasonable to take your terminology as a basis for a standardization. Could it be possible that a couple of your collaborators of yours undertake the task of developing this terminology, under your guidance, of course, and having in view some suggestions of mine?

Looking forward to seeing you soon.

With kind regards

Yours sincerely

D. Cvetković

St. John's University
NOTRE DAME COLLEGE
300 Howard Avenue
Staten Island, New York 10301

6/26/80

Dear Progoš,

By now you are back home and resuming your normal activities I assume.

Many thanks for your post card. It was good to hear from you, and it was a great pleasure meeting you and your wife. I hope to see you both again soon - perhaps in Beograd?

Enclosed find a copy of one of my stories which I was supposed to give you for your son. I hope you find it suitable and entertaining.

So sorry that I never got to Kalamezon

Best, also to Zora,

Mike Capobianco

Dragi Dragose

Hvala na pismu. Po svemu sudeći Ruch i ja smo otknli već poznate stvari.

Ja ću se vratiti u Jugoslaviju već početkom aprila, ostati do posle prvomajskih praznika. U svakako ćemo se tada sresti. Ima dosta novosti.

Knjigu sam dobio. Hvala. U međuvremenu sam već video korekture oba prikaza te knjige (u Theoret. Chem. Acta i Croat. Chem. Acta), tako da možeš u najskorje vreme očekivati da će se ti prikazi objaviti.

Srdačni pozdravi i
do viđenja

Ivan

8/7/80

Dear Professor Cveticovic

I had met you about
4 years back in Holland. I hope
you remember me.

Professor Seidel was
here a few months ago. He ~~showed~~
We have proved some interesting
results on graphs with eigenvalues ≥ -1 .

(Perhaps Professor Seidel must have
shown you our preprint (a joint paper
with S.B. Rao and Vijayan)

Professor Seidel told
me that you have also obtained
interesting results on it. Could you
please send me copies of all
your papers related with graphs
~~and~~ and their spectrum (particularly

graphs with eigen values ≥ -2 .

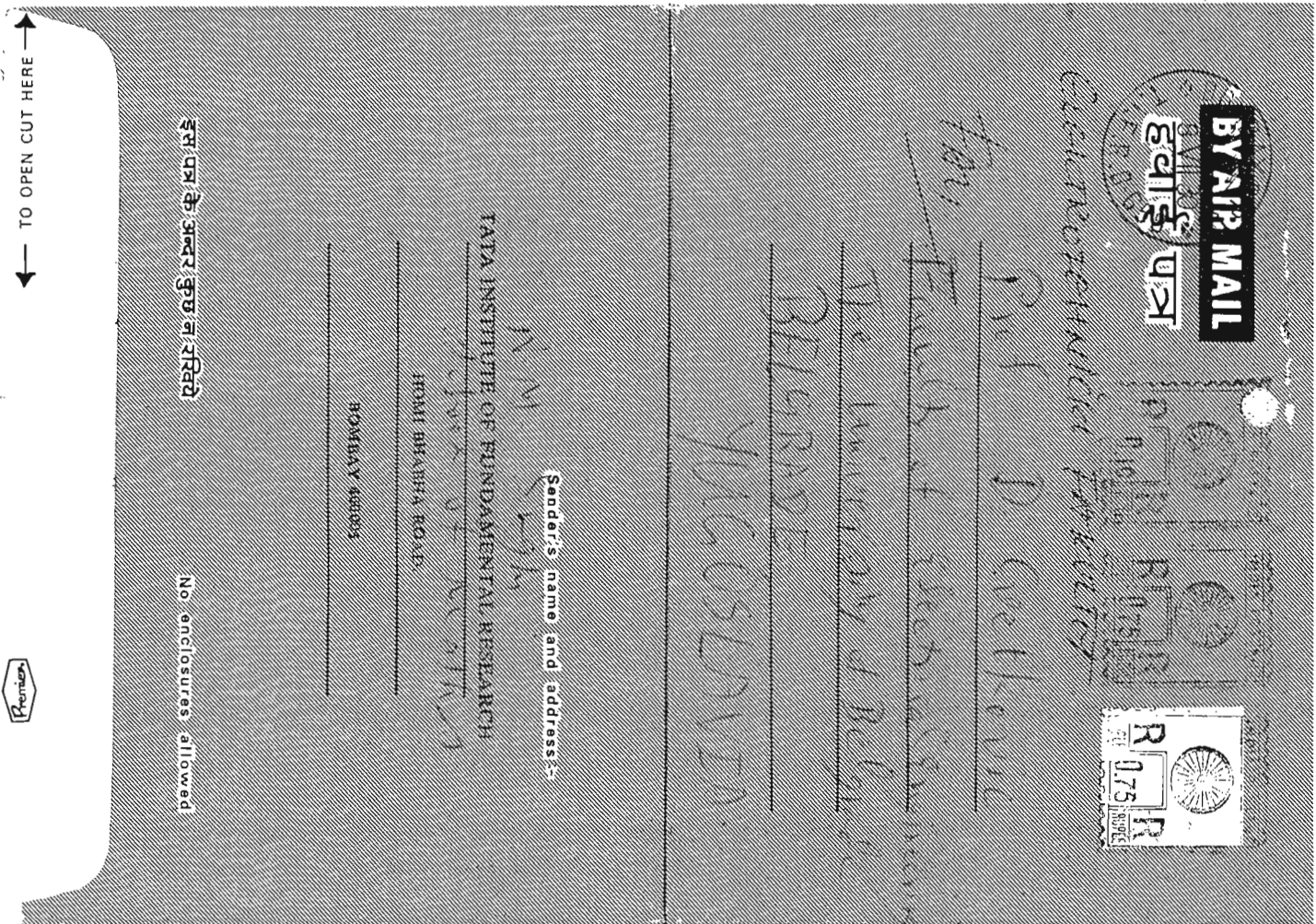
I think with our methods we can get all forbidden-subgraphs for this family of graphs.

Have you also worked on similar lines

Do write to me.

Regards
Naam Singh

FIRST FOLD



SECOND FOLD

Prema vašoj želji:

bratimo slike.

Scientia omni datus

Ulati iz štampe.

h2 porokas

10.07.80.

Meva Petrović
za redakciju

Belgrade, July 21, 1980

Dear Frank,

Once more, my wife and I want to thank you and your wife for the hospitality in your home, for showing us the University and the city, for arranging several meetings for me and my wife and for organising my lecture in your seminar. We shall always remember our stay in Ann Arbor.

I hope this letter will reach you before you leave for England. I would ask you to write me from there to tell me your new address and let me know whether you can and when come to Belgrade.

As we have spoken already, November this year will be a good time. (Before November I am not quite sure whether my new appartement will be ready for you and the financial support I got for you must be spent in this year, i.e. at latest in December). I propose that you come on Monday, November 17 and leave on Saturday November 22. (Officially, you have support for 5 days but it does not really vary much if you stay a couple of days more or less). Please, send me also a list of your lectures. Once, I know for sure when you are coming I shall make a plan of your stay. For this I need at least one month and so please write me about everything as soon as possible.

This time, I hope, we shall both have more time what could result in further collaboration in the scientific work.

M. Doob told me that your example with three cospectral graphs (see the footnote on p. 187 of my book on spectra) is still correct. R. Reed, whom I met later in Waterloo, told me that you probably had in hand a copy of your paper, which was not a final one, when you was telling me about the "mistake".

My book in Serbo-Croatian:

D. Vukobratović, KOMBINATORNA TEORIJA MATRICA
(Combinatorial matrix theory), NAUČNA KNJIGA, Beograd
1980

came out a couple of weeks ago. As I told you, the determinant definition you know, is proposed to be called the Hervey-Costes definition.

With kind regards to you and to your wife

Yours sincerely
Dragoš and Lora

Beograd, July 22, 1980

Dear Mr. Singhi,

Thank you for your letter of July 8. Of course, I remember you very well.

Enclosed are two papers of mine related to the least eigenvalue -2 . The proofs of the results from "Some results on generalized line graphs" are contained in another paper "Generalized line graphs" by the same authors which has been submitted to J. Graph Theory.

I have a lot of papers on graph spectra and instead of sending you all the reprints I would draw your attention to the book: D. Böhme, M. Doob, H. Sachs, Spectra of Graphs - Theory and Application, Academic Press, New York 1980.

I have not heard of your results and I would appreciate very much if you send me preprints or reprints.

It is true that M. Doob and I are working on the problem of finding all minimal graphs with the least eigenvalue < -2 . In essence, we solved the problem and only some technical difficulties remain. As soon as we have the results in a suitable form we shall send them to you. It would not be surprising if we obtain independently the same result.

Kind regards

Yours sincerely
D. Böhme

Beograd 24.7.1980.

Dragi kolego Lukiću,

Dobio sam Vaše pismo sa Vašim rezultatima i pitanjem o disertaciji. No bio sam duže vreme odsutan po Vaš želju da odgovorim. (Uzgod, molio bih Vas da stavite datum Vašeg pisma).

Do disertacije ćete doći ako paralelno sa svojim radom budete pratili i konsultovali literaturu. Znači, sami treba da utvrdite da li je nešto što ste proučili novo. Tek posle svestrane provere treba da se obratite meni ili nekom drugome ili, što je još najbolje, da rezultate formulišete u obliku članka na nekom od svetskih jezika i članak pošaljete nekom časopisu za objavljivanje. Naravno paralelno članak možete poslati i meni. Vi biste u stvari trebali da primete se objavljivanjem velikih rezultata iz magistarskog rada. Posle nekoliko objavljenih članaka može do se razmišljati o radu na disertaciji. Disertacije treba da se osloni na par objavljenih radova.

Maće, imam utisak da ^{se} Vaši rezultati kreću manje više oko poznatih stvari. Međutim samo uporan rad uz konsultovanje literature može doći do plodova.

Ne bi bilo loše do me ako možete potražiti početkom školske godine (u septembru ili oktobru) pa da prodiskutujemo sve ove stvari.

Sa pozdravom

X (u rukopisu)

Beograd 24.7.1980.

Dragi kolege Betagelj i Pisantki,

Pišem vam ponovo obojici jer ne znam ko će se od vas zateći u Ljubljani,

Koliko se sećam, ja sam vam odgovorio na Vaše pismo u aprilu pred moj odlazak u Ameriku. Ja sam se vratio sredinom juna i očekivao sam da ćete se javiti jer smo govorili da biste Vi došli krajem juna u Beograd. No kako do ovog susreta nije došlo, predlažem da dođete, ako ste u mogućnosti, u septembru ili prvom zgodnom priliku.

Ako se ne varam ja sam vam govorio i moj članak na engleskom o sistemu GRAPH (tada je PSTG). Članak sam prikazao na konferenciji u Kelamarcu i on je prihvaćen za objavljivanje. U međuvremenu je ovdje ponešto urađeno na realizaciji sistema GRAPH. Između ostalog pišem i skupljem potprograme za izvođenje zadataka na grafu. Kako bi eventualno uključili i neke od vaših programa, šaljem vam uputstvo za pisanje potprograma. Nadam se da Vaše programe možete lako preurediti da odgovaraju uputstvu. Pri tome imena promenjivih nisu naravno bitna. Mi programe skupljamo na karticama no pre nego što nam ih pošaljete molio bih vas da se svodi vaš program

popunite priloženi formular. (Molim Vas unnožite ga ako je potrebno). Popunite naravno samo ono što znate do popunite (na primer, broj zadatka i cifra zadatka su voje interne oznake). Ukoliko imate nejasnoće, možemo to preko pisma da razjasnimo a sigurno bi bilo korisno do se tortanemo.

Uspred je između 2. 8. do 16. 8. bit će na letovanju u Poreču u bungalovima "Špačići" koje je kraj Poreča. Ako budete u blizini sa kolima možete doći. (Za putujem vozom do Kopera i nazad).

U prilogu se nalazi i pismo za kolegu Marušića. Za nitom znao gde do mu priložen pismo pa bih Vas molio da ga Vi njemu pošaljete jer Vi verovatno znate adresu.

Možda će Vas interesovati da je iz štampa izašla moja nova knjiga "Kombinativna teorija matrice" (Naučna knjiga, Beograd 1980) u kojoj se teorija matrica fundira i rasvire sredstvima teorije profera.

Mnogo pozdrava

Draško Bektović

Beograd 24. 7. 1980.

Dragi kolega Marušić,

Vaš članak "Vertex minimal planar ^{cyelic} graphs"

je konačno ušet u obzir sa sledeći broj Publicacije
El. tehn. fak. Medicinsk tehnički ureduik (Prof.
R. Janić) me je pozvao i rekao da ne može
da se složi Fruchtova oznaka za star polygon
($m(r)$) i shiemo, kako se ona pojavuje u tekstu.
Naime morao bi se posuciti specijalni simbol što je
velo skup. Ako mi vi ne jorite nešto pogodnije
je ću predložiti da se umesto kruga složi kvadrat
tj. $[m(r)]$, što verujem da može. Ako i to ne može
predložicu malo slovo, na primer, $f(m(r))$. Ovo voži
samo za simbole u tekstu, dok grupacije slike ostaju
ovako kako ste ih dali.

Za intervencije po ovom pitanju imo ve-
men o do 1. 9. 1980. To bih molio da se svakako
jorite i pošaljete ovaj adresu da bi znali gde
do vam pošaljemo korektur.

So pozdravom

J. Behtović

Beograd 24.7.1980.

Redakcije časopisa "Scientia Yugoslavica",

Zahvaljujem što ste mi poslali crteže iz
mog članka.

Pretpostavljam da ćete mi poslati jedan prime-
rak časopisa i izvestan broj separata kada članak
izađe.

Ukoliko je predviđen honorar za objavljene
člance, broj mog žiro računa je

60811-620-16-301-51-81593


Račun je kod Beogradske banke.

Sa poštovom

Dragoš Metković,
Lamartinova 44,
11000 Beograd,
(opština Vračar)

D.Cvetković

28.7.1980



Prof. A.J. Bondy

University of Waterloo
Faculty of Mathematics
Department of Combinatorics
and Optimization
Waterloo, Ontario
Canada N2L 3G1

Dear Professor Bondy,

Thank you very much for the interesting talks we had about your computerized bibliography during my stay in Waterloo. I hope we shall remain in touch concerning that topic.

With kind regards,

Yours sincerely,

D.Cvetković



Prof. G. Berman
University of Waterloo
Faculty of Mathematics
Department of Combinatorics
and Optimization
Waterloo, Ontario
Canada N2L 3G1

Dear Professor Berman,

Thank you very much for the interesting talks we had about your computerized bibliography during my stay in Waterloo. I hope we shall remain in touch concerning that topic.

With kind regards,

Yours sincerely

D.Cvetković

Beograd 30.7.1980.

Dragi Ivane,

Evo nekoliko reči o Tvojim Tezi. Najpre, opšti utisak je da se Tvoje matematičko izražavanje radikalno popravilo (na primer, u odnosu na ovaj članak na koji smo Ti i Simić stavili veliki broj primedbi). Sa te strane sam u potpunosti zadovoljan.

U sa sadržajne strane teza je dobra. Ja sam jednom sve letimično pročitao a sada se u dubljijem u pojedine delove. Pošto sam se sa Simićem dogovorio da 1.9. bude rok za moje primedbe, nisam sada žurio po Ti izdatim samo nekoliko zapazivanja. Ostale primedbe saopštio Ti kad se vratim sa mora (posle 17.8.). No već tako mogu do Božića do neke bitne primedbi koje bi zahtevale veće periode rada.

Primedbu 2 sa str. 2. da bi uz inverznu periodu trebalo uvesti za dobar deo nejednakosti u Teoreme 2.3, bez pozivanja na odjeljak 3.4, moglo bi se zaključiti da je unakrs grupa $G_a(C_1, \underline{d})$ moji od $2\sqrt{D-1}$ na sledeći način. $G_a(C_1, \underline{d})$ ima sledeći front divisor



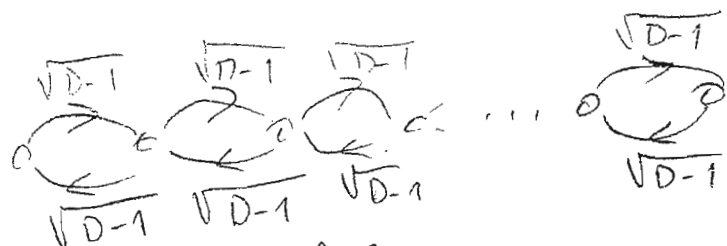
Na osnovu knjige o spektrima str. 132, no. 2, indeksi čvorova je jednako indeksu grane. Diprof sa sl. 1 ima isti indeks od diprofa sa sl. 2



sl. 2

Diprof sa sl. 2 ima isti spektar kao "diprof" sa sl. 1

sl. 3



sl. 3

Sada se $\sqrt{D-1}$ može "izvući" kao zajednički faktor pa je spektar "diprofa" sa sl. 3 jednako spektru puta $(0 \rightarrow 0 \rightarrow \dots \rightarrow 0)$ bilo te razj. formom sa $\sqrt{D-1}$. Dakle indeks "diprofa" je $2\sqrt{D-1} \cos \frac{\pi}{D-1}$ i s. Prim je sve završeno.

Obratio bih Ti pažnju na str. 187 knjige no. 24, no. 25, članak Mowshowitza bi vedelo pogledati; Videti takođe Section 9.5 problem 2 (reference). Problem 7 se takođe može videt spomenuti. Možda bi se distance polinomial iz 9.2 mogao spomenuti u delu koji se odnosi na stabla. To bi bilo pristojica do se u temi spomenuti sve što je u vezi sa spektrima

stabala nikad samo sa jednom rečenicom ili samo novodezjem reference, u tom smislu mogao bi do utjecaja i rezultate iz novog stary članka - spektarima Smith-ovih profana novčića ako se sada još nešto može reći u svetlu članka koje sam ti dao, u vezi sa ovim je interesantno pogledati i knjigu str. 112, no. 4.

Naime ako je $\tau = \frac{1}{2}(\sqrt{5} + 1)$ i $\delta = \tau^{\frac{1}{2}} + \tau^{-\frac{1}{2}}$, onda su profani čiji je indeks izmota 2 i δ upravo stabla. Koje su to stabla?

u vezi sa rasmatranjem sa str. 2 ovog piom pogledaj str. 137 knjige, red 5 i tekst ispod toga.

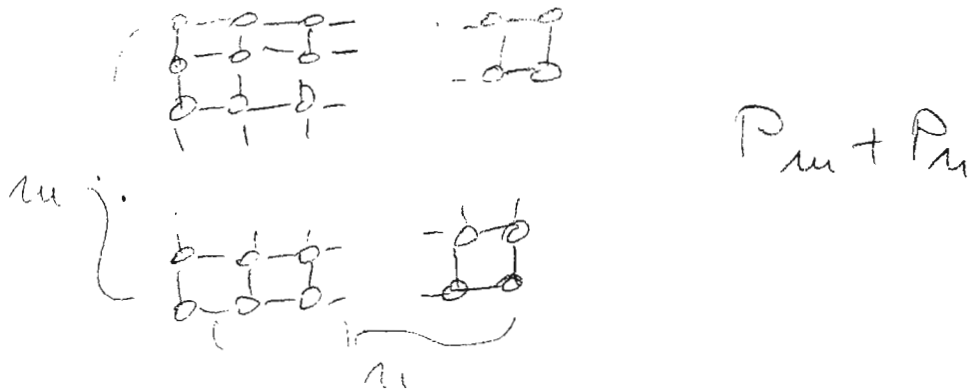
u cilju obuhvatanja cele problematike, a to što se zadržim, mogao bi spomenuti integral bees, što si moće izbeci (kako si mi radio zadnji put).

Sve ovo ne bebo shvatiti kao izričite zahteve ali ne bi bilo loše da dobar deo toga rasmatraš

Sa pozdravom

Drogeš

PS. u vezi nedivogaya knjige shobale pre-
porucio bih da razmotri i primen grefa



To bi uključilo i nizaš ilouak koji u-
stima do pitem u odgovoru.

Molio bih Te da mi u tolu odgovoru
napomeniš spisak ^(u najmanjih) referenci iz knjižice koje su
u vezi sa speshimom a koje nisu uile u knjizi.
Takođe bih Te molio da prevedesh na engleski
uvodnu sekciju i podsekciju iz IV-ije glave
iz knjižice o motivama. Ovo mi je vrlo bitno
ovino zbog pravilnog postovo hemijskih
termina na engleskom. (Honorar za knjižicu
niti još (4) platili!)



The University of Michigan

DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING

ANN ARBOR, MICHIGAN 48109

(313) 764-6485

August 12, 1980

Dear Dragoš:

Both my wife and I deeply appreciated your cordial letter of 21 July. I am to leave for England in only two weeks, my wife still has not as yet decided whether she will accompany me. The longer she delays her decision, the less likely I believe that there is a chance that she will go to England or anywhere. As you asked, enclosed is my address in Cambridge and I plan to arrive there on 29 September after giving some talks in Germany and Switzerland.

Sub
^ *beautiful*
^

The week beginning Monday, 17 November is very good and I will preserve that week for this visit to Belgrade. Of course I'm sure that you remember our discussion in which we tentatively agreed that you could also try to schedule talks for me in: Novi Sad, Niš, and Kragujevac.

Here is the list of my lecture titles which you requested:

- In Belgrade, "Recent results in graph theory"
- In Kragujevac, "Graph theoretic models in chemistry"
- In Niš, "Achievement and avoidance games"
- In Novi Sad, "Ramsay theory for graphs"

} *Four different lectures, of course*

I would be especially interested in discussing with you the fascinating topic of independent discovery in graph theory, in addition to material related to the combinatorial theory of matrices and of course you have my most hearty congratulations on the appearance of your book on that subject. Naturally I shall appreciate receiving an autographed copy when I visit Belgrade.

With kind regards from both of us to you and Zora.

Yours cordially,

Frank

Frank Harary

FH/ms
Encl.

UNIVERSITÄT FÜR BILDUNGSWISSENSCHAFTEN KLAGENFURT
INSTITUT FÜR MATHEMATIK



A-9010 KLAGENFURT
UNIVERSITÄTSSTRASSE 65—67
TEL. (0 42 22) 23 7 30 — 0*

Prof. Dr. W. Dörfler

Herrn
Dr. D.M. CVETKOVIC
Katedra za matematiku
Elektrotechnicki fakultet
Univerzitetu u Beogradu
Bulevar Revolucije 73
YU - Belgrad

ZAHL:

KLAGENFURT, 1980-08-20

I should be grateful if you could send me the following
offprint(s) of your paper(s)

Spectrum of the graph of n-tuples

Connectedness of the p-sum of graphs

A new generalization of the concept of the p-sum of graphs

The Boolean operations on graphs - spectrum and connectedness

Evaluation of a lower bound for the chromatic number of the
complete product of graphs.

On a graph theory problem of M. Koman

Über die Zerlegung eines Graphen in ein Product von Graphen.

Thanking you in advance.

Yours sincerely,

W. Dörfler

Koper, 28.8.1980

Poštvani:

U potpunosti se slažem sa vašim predlozima (koje mi je poručio drug Pisavski) u vezi sa štankom

"Vertex minimal planar cyclic graphs".

Moje adrese bit će:

1. Vojke Šmuc 12, 66000 Koper
(do 28.9.1980)

2. The Pennsylvania State University
Department of Mathematics
215 Mc Allister Building
University Park, Pennsylvania 16802, USA

(otprilike: 1.10.1980 do kraja novembra 1980)

U decembru i januaru još ne znam gdje ću biti.

Sa srdačnim pozdravom

Dragan Vrančić

is interesting that we worked on the same problem
(but our methods are at least a bit different).

Regards -

Sincerely yours

N.M. Singhi

BY AIR MAIL
हवाई पत्र

Prof. Dr. Cochran
Professor of Electrical Engineering
University of Belgrade
Belgrade
Yugoslavia

भेजने वाले का नाम और पता:-
N. M. Singhi
Sender's name and address:-
IITM INSTITUTE OF FUNDAMENTAL RESEARCH
HOWA BHARBA ROAD
GOMBAI 400 005

इस पत्र के अन्दर कुछ न भरिये
No enclosures allowed

To open cut here →

← First fold here पत्र मोड़ें

← Second fold here दूसरा मोड़

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UNIVERSITY OF CAMBRIDGE

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

4 Sept 80

16 MILL LANE, CAMBRIDGE CB2 1SB
TELEPHONE (0223) 65621

Dear friend Giorgio

Please send to me at the above address another reprint of your paper with Guttman where you derived the number of zero-eigenvalues of a bipartite graph.

In October I must fly to Ann Arbor from Cambridge either to become divorced or to bring Virginia with me to England. She said she is deciding what she will do while I am in Europe now for $1\frac{1}{2}$ months.

Anyway I look forward to seeing you in 17 Nov. as agreed. Then we can discuss both independent recovery and graphs and matrices.

Cordially,
Frank

8.9.1980

Prof. F. Harary
Department of Mathematics
The University of Michigan
Ann Arbor, Michigan 48109

Dear Frank,

Thank you very much for your letter of August 10. I am very pleased with your proposal to be an Editor of Journal of Graph Theory and I accept it.

By the way, I have not received the first issue of volume 4 of JGT. Can you arrange that the publisher still send me a copy of it?

With kind regards,

Yours sincerely

D. Cvetković

D.Cvetković

9.9.1980

Prof. R.C. Read

Dear Mr. Read,

I hope this letter will reach you just about your return from Australia. I suppose you had a pleasant stay there.

First of all I want to express my thankfulness for your hospitality during my stay in Waterloo, for showing me the computer systems you have and for supplying me with a lot of useful information.

The work on my system GRAPH is going pretty well and I hope it will work in a few months. The system will be installed at a PDP-11/34 computer and will be written in FORTRAN IV. I shall soon give you more information about it.

With kind regards,

Yours sincerely

D.Cvetković

9.9.1980

Prof. M.F. Capobianco

Dear Michael,

Thank you for your letter of June 26 as well as for your SF story which I have read with pleasure.

This story shows to me that you like computers very much. Therefore I am enclosing the paper about my recent computer project which was presented at the Kalamazoo Conference. The system GRAPH described in that paper will work, I hope, in a few months.

My wife joins me in sending best regards to you and to your wife.

Yours sincerely

D. Cvetković

18.9.1980

Prof. J.M.S. Simoes -Pereira
Prof. C. Zamfirescu
Department of Mathematics
Hunter College
City University of New York
695 Park Avenue
New York, N.Y. 10021
USA

Dear colleagues,

I was again in New York on Saturday, June 14, only for half a day. I phoned you a couple of times but you were not there. Thanking you for the kind invitation I hope we shall meet somewhere on the next occasion.

If ~~you~~ happens that you travel via Belgrade please do not miss to stop by for a while.

With kind regards,

Yours sincerely

D.Cvetković

18.9.1980

Prof. F. Harary
University of Cambridge
Department of Pure Mathematics
and Mathematical Statistics
16 Mill Lane,
Cambridge CB 2 1SB
England

Dear Frank,

Thank you for your letters of August 10 and 12 from Ann Arbor and of September 4 from Germany. I sent the answer to the first two letters to your American address (expressing of course my readiness to be an Editor of *JGT*).

Enclosed is another copy of my and Gutman's paper.

Really there is a lot to be said about independent discoveries and I am looking forward to a discussion about it as well as about other topics including matrices. By the middle of October I shall send you a proposal for the plan of your stay here. By the way, could you deliver a lecture on matroids with some connections to electrical engineering?

With kind regards,

Yours sincerely

D. Cvetković

D.Cvetković

29.9.1980



Mr. R.N. Gojnur,
Registrar,
Karnatak University,
Dharwad 580003
India

Dear Mr. Gojnur,

I am thankful to the ~~Cive~~ Chancellor for inviting me to be an External Referee for the thesis of Shri, H.P. Paril "Some contribution to the theory of graphs". Unfortunately, the title is too general so that I cannot conclude what is the real subject of the thesis. However, if the thesis is about graph equations or/a and graph spectra I ~~would~~ like to act as External Referee. So, if the above is fulfilled consider that I have accepted your proposal.

With kind regards,

Yours sincerely

D.Cvetković

O B A V E Š T E N J E

Dr Dragoš Cvetković, vanr.prof. Elektrotehničkog fakulteta, nastaviće tokom zimskog semestra školske 1980/81. godine dvosemestralni specijalni kurs sa seminarom iz Teorije grafova. Pozivaju se studenti koji su započeli sa slušanjem kursa da nastave pohađanje. Ujedno se pozivaju i drugi zainteresovani da se priključe kursu. Uz pomoć nastavnika i postojećeg udžbenika oni će moći da se uklope u nastavu.

U prilogu se daje program predmeta i spisak tema za seminarske radove.

septembar 1980

»RUĐER BOŠKOVIĆ« INSTITUTE

Bijenička 54, 41001 Zagreb, Croatia Yugoslavia

Dr. Dragoš Cvetković
Lamartinova 44
11000 Beograd

P. O. Box: 1016

Phone: (041) 424-355

Telex: 21383 yu irb zg

Cable: INSTRUBO, Zagreb

Our ref.

Your ref.

Date

22. listopada 1980.

Dragi Kolega Cvetković,

Hvala na pismu od 18. rujna 1980. odgovaram tek sada, jer sam bio u inozemstvu. Nažalost, još nisam uspio nabaviti Vašu knjigu o spektrima. Drugu knjigu o kombinatornoj teoriji matrica nisam vidio u Zagrebu. Kako bih je mogao nabaviti iz Beograda?

Pismu prilažem članak od Wu-a. Nas ovaj problem dosta zanima. Nisam sada sa mnom sudačuje jedan fizičar (D. Kasun), kojega zanima pokrivanje "lattice", pa citamne radove Domba.

Srdačnim pozdravima,

Nenad Trinajstić

Beograd 10.10.1980

Gojici Ivane,

Kompjuterski sistem GRAPH je konacno onih desetak programa. Doduse broj funkcija koje sadrzi obavlja je ogranicen ali postoji veliki broj potprograma koje tek treba da ujedine narednih nedelja. Do kraja godine deo koji sadrzi algoritme obrade grafova ce sadeti sa vecinom predviđenih funkcija

Za planiram da uskoro investiram broj potencijalnih interesenata (za sada samo u Jugoslaviji) fondom isporuku sistema GRAPH (odnosno njegovih delova) prakticno po simbolizirani cenama reda velicine par miliona (starih) dinara. Pošto sistem svakako može i Tebe da interesuje, prijem Ti da izvеш Tuje i izveštaje o ovome a specijalno da li bi Tvoj fakultet mogao da kupi jedan takav sistem. Po misljenju velikih mogih savodnika, ovaj potprogram sistema bi moglo biti vredno ~~par~~ desetina a milionu dinara).

Pri postavljanju da znaš osnovne ideje sistema GRAPH a dopunske informacije lako možeš dobiti. U slučaju da si zainteresovan za isporuku ovoga sistema potrebno bi bilo da nam dostaviš osnovne karakteristike kompjutera na kojem bi želeo da sistem bude instalisan.

Drugi razlog zbog kojeg ti pismu je Hararyeva poseta. Dogovoreno je da Harary dođe 17. novembra (ponedeljak) i ostane te nedelje u Beogradu i okolini. Znaš i sam da je Harary ispisao želju da poseti i drugo mesto pa je u jednom od pisama reči i predvidelo temu za predavanje u Kragujevcu: "Graph theoretic models in chemistry". Borek prof. Hararya će platiti Elektrotehnički fakultet ali bi možda jedan umeren honorar za predavanje dobro došao jer predviđene dnevnice nisu bog zna kako velike. Harary bi verovatno došao jednog dana uputno u Kragujevac i uveče se vratio u Beograd. (Nadam se da će je zajedno sa drugim tada konačno posetiti Kragujevac!) Molim te da mi jasnije do li je ovaj predlog prihvatljiv za Tebe i Tvoj fakultet i da po mogućnosti reči sad uspešno utvrdimo hoće li doći Harary došao u Kragujevac.

Na kongresu u Bečiću nisam išao zbog nekih obaveza kod kuće ali sam Simiću rekao da referiše Tvoj i moj rad.

Pretpostavljam da kućne stvari dobro napreduju.

So podrievom

Dozpoz



M. Deza

Prof. Dr. Michael Deza
17 Passage d' Industrie
75010 Paris
France

Dear Mr. Deza,

I have learned with pleasure about your intention to visit us for two weeks in September 1981. You are welcome here and I hope we shall spend the time in exchanging ideas since our interests in the field of Combinatorics are pretty close each other. Unfortunately, I am not able to offer you any financial support but there will be no problems in using our facilities here at the Department of Electrical Engineering as well as in the Mathematical Institute.

Looking forward to hear the news from you.

Yours sincerely

Prof. Dr. Dragoš Cvetković

D.Cvetković

23.10.1980

Prof. F. Harary
University of Cambridge
Department of Pure Mathematics
and Mathematical Statistics
16 Mill Lane
Cambridge CB2 1SB

Dear Frank,

We are expecting you on Monday, November 17 as agreed before.
At the moment the plan of your visit is as follows:

Thursday - Faculty of Electrical Engineering, Belgrade
Wednesday - Faculty of Science, Kragujevac
Thursday - Faculty of Science, Novi Sad
Friday - Mathematical Institute, Belgrade.

I shall inform you about definitive plan as soon as it is fixed.

We can discuss the matter of independent discoveries in graph theory and possibly prepare a joint publication about that. I have in mind some cases mentioned in my book on graph spectra as well as something from personal experience. Of course, I shall explain you some details from my book on matrices. You will see here the computer system GRAPH about which I was talking in Kalamazoo and which already works partially.

Please inform me about exact time of your arrival so that I can meet you at the airport. Just in case: my private address is: Lamartinova 44 and phone 437-263. Is Virginia joining you?

Looking forward to meet you soon,

Yours sincerely

D.Cvetković

UNIVERSITY OF CAMBRIDGE

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

16 MILL LANE, CAMBRIDGE CB2 1SB
TELEPHONE (0223) 65621

27 October 1980

Professor Dragoš Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade, YUGOSLAVIA

Dear Dragoš,

I am looking forward very much indeed to my visit to you in November. My arrival date in Belgrade is to be either 15 or 16 November and my departure on the 22nd. During the week, I would be truly delighted if you could arrange lectures for me at any four of the following cities:

Beograd
Niš

Novi Sad

Kragujevac
Pristina

(or even all five of them).

Unfortunately, it seems to be settled that I will be arriving alone.

On returning to Cambridge at the beginning of November I shall write you again with my exact flight numbers and times.

I look forward to several interesting discussions with you.

With kind regards,

Yours sincerely,

Frank Harary.

P.S. Unless I write you otherwise from Cambridge, I am to arrive alone in Beograd on Saturday, 15 November, on flight JU351 at 18:55 (?). Please verify the time of arrival.

ODELJENJE ZA MATEMATIKU
MATEMATIČKOG INSTITUTA
BEOGRAD

Petak, 31.oktobar 1980. u 18 časova

1. M.KRASNER (Pariz): ENDO TEORIJA APSTRAKTNE GALOIS-ove TEORIJE
2. Diskusija.

Petak, 7.novembra 1980. u 18 časova

1. B.S.NADJ (Segedin): REZULTATI I PROBLEMI TEORIJE DILATACIJA OPERATORA HILBERTOVOG PROSTORA
2. Diskusija.

PETAK, 11.novembar 1980. u 18 časova

1. S.BINGULAC: O POSTAVLJANJU POLOVA PRIMENOM DINAMIČKIH KOMPENZATORA
2. Diskusija

Rezime: U saopštenju se opisuje postupak sinteze dinamičkih kompenzatora kojima se kod linearnihmultivarijabilnih sistema rešava problem postavljanja polova. Postupak sinteze kompenzatora se bazira na korišćenju algoritma za postavljanje polova referisanom u odeljenju za matematiku MI dana 7.XII 79 i predstavlja nastavak istraživanja u oblasti postavljanja polova korišćenjem vektora izlaza.

PETAK, 21.novembar 1980. u 18 časova

1. Prof. F.HARARY, (Univ.of Michigan): "RAMSEY THEORY FOR GRAPHS"
2. Diskusija

PETAK, 28.novembar 1980. u 18 časova

S l o b o d n a t e m a .

UPRAVNIK ODELJENJA
Dr Djuro Kurepa, s.r.

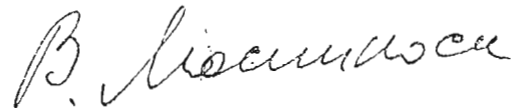
Beograd, 31-X-1980 g.

Cenjeni kolega,

Rezultati istraživanja primene veštačke inteligencije sve se više pojavljuju u raznim praksama. Naučnici posvećuju pažnju daljim uspešnim primenama, tako da je sve veći broj radnika u toj naučnoj disciplini. I kod nas u zemlji broj istraživača u ovoj oblasti je porastao. U cilju organizovanije, rada i uspešnije razmene rezultata želim da pokrenem organizovanje stalne Komisije o veštačkoj inteligenciji u okviru ETAN-a. Smatram da bi vi doprineli uspehu ovog djelovanja opredeljenja ciljeva i zadataka Komisije, pa vas molim da prihvatite obavezu člana inicijativnog odbora koji treba da dobije zvanični oblik djelovanja.

Sastanak inicijativnog odbora održali bi 7 novembra 1980 godine u 18 sati u prostorijama ETANA, Knez Miloša 9/IV (Zgrada DIT-a).

Dr. Vukašin Masnikosa dipl.ing.



Prof. DRAGOŠ CVETKOVIĆ
11 000 Beograd
Elektrofakultet
Bul. Revolucije 73

7.11.1980

Prof. F. Harary
University of Cambridge
Department of Pure Mathematics
and Mathematical Statistics
16 Mill Lane
Cambridge CB 2 1SB
Great Britain

Dear Frank,

Thank you for your letter of October 27, written from Ann Arbor. I shall be waiting for you at the airport on Saturday, November 15. Unfortunately my apartment is still not yet ready for you so that you will be staying in a hotel. Of course, our University will cover your expenses.

Your program is at the moment as follows:

Tuesday, November 18, 12 a.m. Faculty of Electrical Engineering, Beograd, lecture: "Recent results in graph theory".

Wednesday, November 19, 3 p.m. Faculty of Sciences, Kragujevac, lecture: "Graph theoretic models in chemistry".

Thursday, November 20, 12 a.m. Faculty of Sciences, Novi Sad, lecture: "Achievement and games",

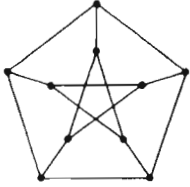
Friday, November 21, 6 p.m. Mathematical Institute, Belgrade, lecture: "Ramsay theory for graphs".

Looking forward to see you soon.

Yours sincerely

D. Cvetković

493-166



Journal of Graph Theory

FOUNDER-EDITOR

Frank Harary
Department of Mathematics
The University of Michigan
Ann Arbor, Michigan 48109
(313) 763-0153

(1980-81 address)
Department of Pure Mathematics
University of Cambridge
Cambridge, CB2 1SB
ENGLAND

MANAGING EDITORS

Gary Chartrand and Linda Lesniak-Foster
Department of Mathematics
Western Michigan University
Kalamazoo, Michigan 49008
(616) 383-6155

9 Nov. 80

Dear Dragoš,

Thank you for your letter of 23 Oct. I hope this reply reaches you in time. Of course I also look forward to our first two joint papers, one on independent discovery and the other on graphs and matrices.

I am very sad that Virginia refuses to join me in coming to Belgrade or to England.

My definite arrival date, flight and time are:

Date: Sunday 16 November

Flight: JU 351 (from Frankfurt where I must change planes)

Time: 19.25

This cannot be changed. If you can meet me at the airport, I shall be very happy. If you are not there, I shall try to phone you from the airport. I hope it will still be possible at least to add one talk in

Nis and perhaps one other. Kindest regards.

Yours sincerely
Frank

Dept. of Engineering Production
University of Birmingham,
Birmingham 15,
ENGLAND.

10. 11. 80.

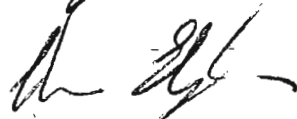
Dear Dr Cveticović,

I have recently enjoyed your paper "Graphs and their Spectra" published by the University of Belgrade in 1971. I am interested in the relationships between the largest eigenvalue of a graph and the chromatic number. You refer to reference 22.

D.M. CVETKOVIĆ: Inequalities obtained on the basis of the spectrum of a graph. To appear.

I have attempted to trace this paper without success. I would be very grateful if you could forward me the reference.

Yours faithfully



CLIVE ELPHICK.

sgt 中
129 19v bgd yu
29221tk uru b
zczc 03482
bruxelles 19/18 13 1235

TELEGRAF
BEOGRAD

033

MRV NOV 13 13:50

docteur bragos cvetkovic
electrical engineering faculty university
beograd

558

arriving sunday same flight not saaturday looking forward
frank harary

col nihil



nnnn中
129 19v bgd yu
29221tk bru b中

November, 28, 1980

Dear Dragos,

I received an invitation by Prof. M. Stojaković soon enough to include my trip to Belgrade into "supplementa to the plan", so I believe that it will be realized. I put in the supplementa the following program: Prof. Mardešić wishes to have my lectures on Monday and on Tuesday, so I plan (preliminarily) to come to Zagreb during May 15-16 and to have lectures there on Monday 18 and Tuesday 19. Then I could come to Belgrade. The latest term for my return to Czechoslovakia is May 23-24. I can (and will) order and pay all my trains here in Prague. But I need to know the exact dates. Let me know, please, whether the Thursday May 21 or the Friday May 22 (or both) would be suitable for my lecture(s) in Belgrade and in which term between May 21-23 I should order my ticket for the travel Belgrade-Prague.

Simultaneously with this letter, I send also a letter to Prof. M. Stojaković to offer him the terms May 21 and May 22 for my lectures and also themes and titles of my lectures (either algebra: functorial algebras and automata or topology: about homeomorphisms of products of spaces or graph theory: about isomorphisms of products of infinite graphs). Thank you very much for your help in the arranging of this my visit.

Looking forward to hear from you soon
(and to see you in May)

Věra.

3.12.1980

Dr. M.M. Sys~~to~~
Insttut of Computer Science
University of Wro~~claw~~
Pl. Grunwaldrki 2/4
50-~~484~~ Wroctaw, Poland

Dear Mr: Sys~~to~~,

Thank you very much for in~~form~~ing me to your Conference in Fermory next year, both personally in the USA and recently by sending me the registration form.

Unfortun~~at~~ely, I have to inform you that I am not able to take the part in the Conference because of some private reasons. By the way, my intention was to present my paper (with L.Kraus and S.Simić) entitled "Discussing graph theory with a ~~comp~~puter", which describes with more details my computer system "Graph" which already works partially.

With kind regards,

Yours sincerely

D.Cvetković

BERGAKADEMIE FREIBERG

SEKTION: Mathematik



Bergakademie Freiberg, 92 Freiberg (Sachs)

Prof. Dragoš M. Cvetković
Lamartinova 44

YU-11000 B e o g r a d
Jugoslawien - Yugoslavia

Ihre Zeichen

Ihre Nachricht vom

Unsere Nachricht vom

Unsere Zeichen

92 FREIBERG (SACHS)

10. Dez. 1980

Betrifft:

Dear Professor Cvetković,

I'm working as an assistant in the team of professor Schaar and I'm looking for papers which deal with properties of a special case of the B-product (in Your book "Spectra of graphs" it is called NEPS), namely with $B = \{(0,1), (1,0), (1,1)\}$. In the bibliography of this book I have found such a paper under the sign /Te Ya/; I ask You, if it is possible, for sending a print of this article /Te Ya/ and reprints (or preprints) of other articles on properties of B-products. Professor Sachs, who has given me your adress, supposed that You would be so kind to help me.

Thank you for Your trouble!

Yours

Hanns-Martin Teichert
Hanns-Martin Teichert

III/11/2 Kg (G) 144/78 4356 20

Fernruf
Freiberg 51

Fernschreiber
AKADEMIE FRBG. 078535

Staatsbank der DDR, Filiale Freiberg
6071-27-127012

Postscheckkonto
Dresden 7299-57-13152

Schließfach 47

MAGYAR TUDOMÁNYOS AKADÉMIA
MATEMATIKAI KUTATÓ INTÉZETE

BUDAPEST V., REÁLTANODA U. 13-15.
TELEFON: 182-873

MATHEMATICAL INSTITUTE OF THE
HUNGARIAN ACADEMY OF SCIENCES

BUDAPEST V., REALTANODA U. 13-15.
TELEGRAPHIC ADDRESS: MATEMATIKA, BUDAPEST

Enclosed we are sending the proofsheets of your paper

Please correct it and return as soon as possible to the
above address of G. Székely.

Yours sincerely

Mrs. Éva Várnai

Reference: Molim Vas dopunite ili komentirajte ako smatrate da podatak koji tražimo nije neophodan

5. zašto No.544-576 ako se upisuje stranica, znači da ima i broj volumena ili se može locirati jedan No.- ?

6. WSK-01 upišite str. od - str. do

9. časopis ima samo brojeve ili i volumen? ako da koji?

10. isto kao 9

20. Ako je Thesa na ~~hrvatskom~~ originalno na našem jeziku dali je pravilan naslov "Grafovi i njihov spektar"? na kojem je fakultetu obranjena odnosno predana?

- što znači i Publ. Elektrteh. Fak..... tamo je samo sažetak ?

23. tko je izdavač?

24. kako je puni naslov časopisa?

42. tko je izdavač?

48. što je naslov knjige a što poglavlja?
tko je izdavač ?

50. tko je izdavač ?

53. tko je izdavač ?

54. tko je izdavač zbornika ?

56. isto kao 9.

57. kuda je to poslano ? dali je prihvaćeno ?
62. na kojem fakultetu je to prijavljeno i obranjeno ?
69. kako ~~je~~ glasi srpsko-hrvatski naslov ?
na kojem fakultetu je obranjeno ?
76. koji je to časopis? ili knjiga ?
75. da li broj 42 znači broj Topics-a ?
da li postoje editori?
79. na kojem fakultetu ?
80. postoji li neki razlog za -ch u prezimenima?
81. tko je izdavač ?
85. da li su to Razprave ili Dissertations? tko je izdavač?
86. na kojem fakultetu ?
87. u kojem broju ili volumenu ? da li je već prihvaćeno?
89. što znači redaktor? -tko je autor ? - tko je izdavač?
90. tko je izdavač ?
94. kako je naslov na našem jeziku ? na kojem fakultetu ?
97. u kojem broju ili volumenu? da li je rad prihvaćen?
98. kako je naslov na našem jeziku? na kojem fakultetu?
100. tko je izdavač ?
101. kako je naslov na našem jeziku ? na kojem fakultetu?

STANFORD UNIVERSITY
STANFORD, CALIFORNIA 94305

DEPARTMENT OF OPERATIONS RESEARCH

Dear ^{Mr} Cox + family,

I am pleased you would be in NY
and hope we can meet. I expect to be back
at IBM by the end of April, but I'm not
sure. Would you be kind enough to call
to let me know you will be? My phone
numbers are: 914 245 2276 (office)
914 235 1797 (home)

My
I wish I could make more definite
plans, but the uncertainty about my return
makes it difficult. But I do hope we
can meet.

Best wishes,
Alan Hoffman

TORONTO, CANADA

This view was taken across one of the many welcoming green areas in the heart of this dynamic city. Hotel Toronto is in the centre, and the CN Tower dominates; at 1815 feet the world's tallest free-standing structure.

Toronto
All Jan

Dear Dragoš, Thanks for the letters I received
it only the day before ~~last~~ ^{last} evening
I'm happy; just in time. There is no chance
that I will arrive in Belgrade before
February, so please enjoy your
holiday. The most likely date would be
about the 8th or 9th of February, but it is
not possible for me to be more precise. If there
is any problem today, please contact me via
Dr. Dr. J. Seidel, Department of Mathematics,
~~2nd~~ Technische Hogeschool Eindhoven,
Postbus 513, Eindhoven, The Netherlands. I
will be there about 23rd Jan.

Incidentally, each of my 407 graphs
contains at least one of your 31 graphs. I'll
bring the details with me.

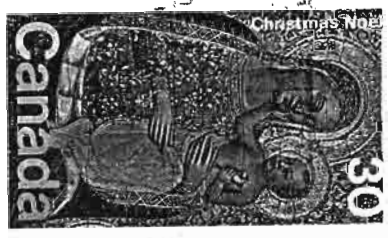
Best wishes,
Brendan McKay

Cavalier

ALEX WILSON
D. 067-018-0 Canada
PUBLICATIONS

Dist. by Royal Specialty Sales, 11 Industrial St., Toronto M4G 1Z2

POST CARD



PROF. DRAGOŠ CESTROVIC,

LJUBLJANA 44,

BELGRADE,

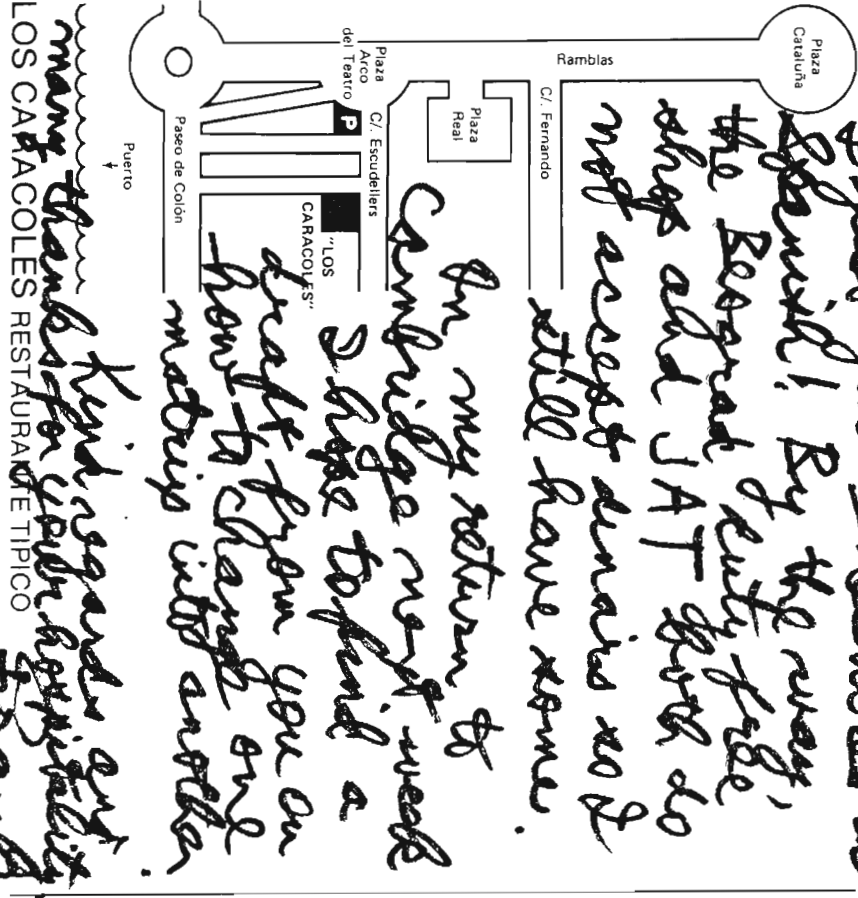
YUGOSLAVIA

19442R

1x the 80 near bridge,

I just gave 3 letters in Spanish! By the way, the Beograd entry fee shops add JAT but do not accept dinars and I still have some.

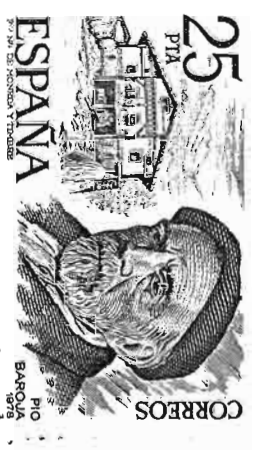
On my return to Cambridge next week I hope to find a draft from you on how to change and making it into another.



many thanks for your hospitality
LOS CARACOL'S RESTAURANTE TIPICO

CALLE ESCUDELLERS, 14 - TELEFONOS 302 31 85 - 301 20 4 - BARCELONA 7 (ESPAÑA)

P PARKING GRATUITO - Escudellers, 6



I. G. DOMINGO, S.A.-DLB 9219/78

Prof. Dragos Cvetkovic
Hamartimosa
Beograd
JUGOSLAVIA

A-9844 Heiligenblut, 1301 m, bei Nacht
an der Glocknerstraße

We are enjoying a week here
skiing, in fine sunny
weather.

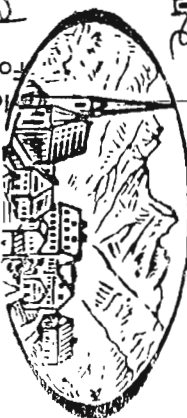
We hope you have a
very happy Christmas and
New Year season.

Thank you very much
for the gifts you gave us
while we were in Beograd.

Jim is wearing the slippers,
now - he has very big feet!
He has just started to
walk, but looks very funny
as he must concentrate on
each step.

Last week we were in
Eindhausen for 3 days, which
we really enjoyed. There was
no snow there, not like Austria
Chris, Ann + Jim Godsil.

HEILIGENBLUT - 1301m



TOB KURORT WINTERSPORT
AM GROSSGLOCKNER
Glocknerwit, A-9844 Heiligenblut
Klinar - Nachdruck verboten



THE CVETKOVIC FAMILY,

LAMARTINOVA 44

BEOGRAD,

JUGOSLAWIEN.

Postleitzahl

um 0

Hope all is well with you. We're
doing fine. It was lovely to see
you last Summer & thank you for the
fascinating musical box. We show
it to all our visitors. I'm still working
yull time, but hope to cut down a
bit in the New Year - to give me
more time to do things around the house.
We are still planning to go to England
next summer - I'm really looking
forward to it.

Hope you have a lovely Christmas
& all the best for the New Year.

Love, Sue & Tom

To wish you a
Merry Christmas
and a Happy New Year

To Zora, Dragos & Mladen,
With love from,

Sue & Tom
Hall

UVRISTANUT Dec. 1981

Šte roj' baki
i mnogo radu
vseka u noroj'



1981
Soclini jeli nam
Tina Pask.

P.S.: Ithalo za 81500
predavaj, boji se mi
kotali!

SIR - A 10

NAKLADA - NAŠA DJECA - ZAGREB, GAJEVA 25



Dr.



DRAGOŠ ČESTKOVIĆ

LATANI NOVIT 44

11000 BEGRAD

Peter the Great was the first monarch to invite ladies to dine at his dinner table. He demanded that the women of his court adopt fashionable hair styles, stop coloring their teeth black, discard their veils and appear in décolleté gowns. Peter the Great was fond of Dutch cheeses and meats served with fruit preserves.

RUSSIAN TEA ROOM / 150 W. 57 ST. / NEW YORK 10019 / 265-0947



Dear Drages,
Happy New Year
from
Frank

2 Jan 81
Ardean Pogdrow
old Smilke

Dear Dragoš,

17 Jan 1981

I returned to Ann Arbor for 10 days during the new year holiday and delivered Zora's present in person. V liked it very much. She does not want us to be together and she even asked me to leave Ann Arbor one day sooner than I wished.

You told me to spend the remaining Dinars in the Beograd duty free shop and on the JAT plane but neither would accept Dinars. Hence I will bring the Dinars with me to Poland on 8 Feb. and hope to see you there at the Graph Theory meeting. Then I will ask you to buy something nice for me (Nada Obradovic suggested some silver plated wine glasses which I would like — please give her my regards.)

I have 530 Dinars. Could you please bring or send this much value of items for me so I can spend this amount? The meeting in Łańcuch, Poland takes place 10-13 Feb. 1981.

When will you have a chance to send me your thinking on algebraic equations for the various matrices of a graph. Regards to Zora and Dr Mrs Simić

Split, 20.1.1981.

Poštovani profesore Cvetkoviću!

Čitajući Vašu knjigu TEORIJA GRAFOVA I NJENE PRIMENE naišao sam na bilješku o čuvenom problemu četiri boje. S tim u vezi molio bih Vas da mi javite slijedeće: Da li se s noticom, koja je zabilježena u drugom izdanju Vaše knjige na str. 29, može smatrati da je ovaj problem definitivno riješen? Ako su Vam poznati još neki detalji u vezi rješenja spomenutog problema, bilo bi mi drago kad biste mi o njima pisali. - Ja naime predajem Primijenjenu matematiku na Tehnološkom fakultetu u Splitu, pa sam uz ostalo studentima spominjao teoriju grafova kao jednu od mogućnosti aplikacije matematike u kemiji. Bio bih Vam isto tako zahvalan ako biste me uputili na izvore, koji tretiraju primjenu teorije grafova u organskoj kemiji i u kemijskoj tehnologiji.

Na kraju, izvinjavam se na smetnji, te Vas srdačno pozdravljam.



.....
Neven BOGDANIĆ,
Split, R. Boškovića 6/

Bojan Mohar

Ljubljana, 29. 1. 1981

FNT, VTO matematika in mehanika

Univerza v Ljubljani

Jadranska 19, 61001 Ljubljana

Dr. D. Cvetković

Bulevar revolucije 73

11000 Beograd

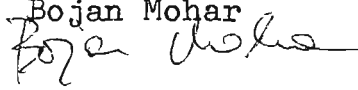
Dragi prof. Cvetković !

Šaljem vama kopije dviju radova, koje smo u posljednje vreme uradili u Ljubljani. Molim vas, da jih pokažete i Simiću i Gutmanu ako bude prilika.

Verovatno se još sećate, da sam vas zamolio za temu za magistarski rad. Javljam vam, da mi se u Ljubljani pružila povoljnija prilika: dr. Vrabc mi je predložio nešto o bojenju grafova. Tako neće biti poteškoća sa vanjskim mentorom i "kod kuće" se mogu raspitivati o problemima u vezi sa radom. Zasad bi želio samo da vam zahvalim za vašu spremnost, da mi pomognete .

Izvinite na gramatici !

Srdačne pozdrave

Bojan Mohar


Beograd 29.1.1981.

Dragi kolega Bogdanić,

Hvala na Vašem pismu od 20.1.1981.

Problem četiri boje se smatra rešenim, kao što je to u mojoj knjizi istaknuto. Postoje brojne ekspozicije u literaturi rešenja ovog problema a za preporuku je, na primer, knjiga: T. Saaty, P. Kainen, The four color problem, McGraw-Hill 1977.

Što se tiče primera grafova u hemiji, možda je za početak najbolje da pogledate moju najnoviju knjigu: Kombinatorna teorija matrica (sa primenama u elektrotehnici, hemiji i fizici) Naučna knjiga, Beograd 1980. Inače, kod nas se najuspešnije primenama teorije grafova u hemiji bavi dr. Joan Gutman, docent, Prirodno-matematički fakultet, Zovod za hemiju, 34000 Kragujevac, R. Danilovića 12. On je hemičar ali je uspešno dobio i matematiku (iz oblasti teorije grafova). On je, između ostalog, zajedno sa još nekim kolegom objavio seriju popularnih članaka o primenama grafova u hemiji u časopisu "Kemije u industriji", a napisao je i odgovarajuće poglavlje u mojoj govorničkoj knjizi.

Ako vam u još nečemu mogu pomoći, ne ustojitejte^{te} da mi se javite.

Se pozdravom

D. Bešlić

Beograd 30.1.1981,

Dragi kolego Yericic,

Kolega Joan Gutman mi je rekao da se Vi već duže vreme boste grafovskim algorit-
mima i da se interesujete za programski sistem
"Graph" čije realizacije je u toku na Elektrotehničkom
Inštitutu u Beogradu. Zbog toga vam šaljem članak
u kome su istvorene osnovne ideje sistema "Graph".

Kao što se vidi iz članka to je vrlo veliki
sistem a specijalno u bloku ALGOR planira
se reprodukcija nekoliko stotina grafovskih algoritama.
Ukoliko biste bili voljni da saradujete na ovom
projektu Vaša pomoć bi bilo dobrodošla. Sigurno
je da bi se mnogi Vaši predlozi sa minimalnom
modifikacijom mogli uprediti u sistem. Šaljem vam
u prilogu kopije koje se pridržavamo pri preuzimanju
Vaših predloza koji realiziraju grafovske algoritme. Zna-
će doprinosi svakog saradnika se evidentira i
u sledećim komercijalnim upotrebe sistema svi koji
su doprineli ostvarili bi svoja autorska prava.
Trenutno ne postoji shodstvo sa firmom sistemu
ovog projekta.

Blok ALGOR je u suštini već gotov
(uglavnom je realizirano nekoliko algoritama) ali još
nije ispunjeno lično podnehtu - ostatak etc.

Split, 5.2.1981.

Poštovani kolega!

Prije par dana primio sam Vaš cijenjeni odgovor na moje pismo. Zahvaljujem se i još jednom se izvinjavam na smetnji.

Vaše će mi informacije biti od velike koristi.

Bude li potrebno, javit ću se opet, a sada Vas srdačno pozdravlja


Neven BOGDANIĆ

Adresa:

A. B., 58000 Split,

R. Boškovića 6/IX

V. Trnbová
MATEMATICKÝ ÚSTAV UNIVERSITY KARLOVY
PRAHA 8-KARLÍN, SOKOLOVSKÁ 83
Telefon 629-14, 629-15, 628-95
Czechoslovakia

February, 9, 1981

Dear Dragoš:

in November 28, 1980, I sent a letter to Prof. M. Stojaković and a letter to you. I suggested the term May 21 and May 22 for my lecture(s) in Belgrade. (I also expressed many thanks for the invitation and offered several themes for my lecture(s)). Neither Prof. Stojaković nor yourself have answered these my letters. Since I have to write in advance also to Zagreb to Prof. Mardešić and I have to tell him the date of my arriving in Zagreb, I should like to know, whether the term May 21-22 is suitable for my stay in Belgrade. Could you answer me as soon as possible, please?

Kind regards and best wishes.

Yours sincerely

Věra

Beograd 9.2.1981.

Dragi kolega Mober,

Hvala na pismu od 29.1.1981. Radovi koje ste mi poslali izgledaju simpaticno i nadam se da ce biti prihvaceni. Lepo je što ste stvar sa Vasim mapistavskim radom sretili u Ljubljani jer zarsta je rad otezen kad mentor nije u istom gradu.

Ni Vi niti iko od Vasih kolega n-je ništa javio oko eventualne podrške našem kompjuterskom sistemu. Mi smo privremeno pozajmili jedan disk i sistem radi pristojno. Reakcija sistema je sada posle 3-4 sekunde za male grafove. Instalisano je zarada oko 50 potprograma koji obavljaju neke zadatke sa grafovima.

Problem disk je je još uvek aktuelan jer ovaj trenutno uslovo da namino je bi Vase pomoć bilo dobrodošla (disk RK05 za PDP 11/34). Takođe su i Vaši forbarski programi dobrodošli. Jeste ako imate nešto novo.

Sa pozdravom

J. Beklarić

15.2.81.

Cijenjeni profesore Cvetkoviću,

Šaljemo Vam jedan rad u kome je dat algoritam za nalaženje elementarnih puteva i ciklusa u grafu. Algoritam mi se čini zgodnim za primenu na računarima, pa robitvom na projekat na kome radite, može Vam biti od koristi.

Ujedno Vam se još jednom najprikladnije zahvaljujem na detaljnim pregledima mojih radova koje sam prošao kako ste predložili.

Sa poštovanjem

M. Petrić.

Dr. Prof. Radoš Ovetković
Elektrotehnički fakultet

Bulevar Revolucije 73
11000 Beograd


Poštovani profesore,

Kao autora knjige o"preferansu" molim vas za jedno tumačenje.

Naime, igrač koji je prijavio "BETL" ubedjen da ima prolaz otvara svoje karte. Da li ostala dva igrača mogu međusobno da izmešaju svoje karte i onda igrom da pokušaju da ga obore, ili da samo kartama koje su dobili, dakle bez mešanja karata, pokušaju da nadju "rupu" u betlu.

Ljubazno vas molim za jasan odgovor u priloženoj koverti koju sam već adresirao i frankirao.

Izvinite za uznemiravanje.


Petar Samardžija
Čelopečka 15
11000 Beograd

prilog: navedeno
preporučeno
ps

Починувати професоре!

Програм за одређивање језика графа
био је саставни дио једног нашег
истраживања. Овдје имаће кратко објаш-
њење и листици програма, као и
један пример. Програм је окливиран
на рачунару IBM 360/40, а окливи-
рање на IBM 1130 не би пре-
дого да програме дине од неколико сати
суперкомпјутерског програмера рога.

Осим овог програма и листице,
имамо ^{опредељених} ~~калориметри~~ који још нису
имплементирани на рачунару, а
који се зазира на технику "backtrace
programming". Нама, овом техником доби-
јају се веома лако издирани евидентни
сиробни, а ова се на основу једне
теореме из асимптотике кључе, пробјерова
да се је добије сакупљени језик.

Поздрав

Београд,
03.03.1981

—————

1981

Димитрије Вукосавић
Матри. "М. Пучић"
тел. 413-522/338

March, 29, 1981

Dear Dragos',

Thanks for your letter - not dated, but I received it in March.

I am very glad indeed that the term May 21-22 is suitable for my stay in Belgrade. In agreement with Prof. Mardesic', I intend to come to Belgrade during Thursday 21. I have not yet selected a train Zagreb-Belgrade, maybe, you could advise me some suitable train.

Concerning the duration of my lecture, I can accept any your suggestion. In Zagreb, I shall speak twice, both talks will last 90 minutes and both will be only from topology. Let me know, please, the selected theme and the duration of my talk - Friday May 22 is suitable for me.

I intend to leave Belgrade by the direct train Belgrade - Prague, which leaves Belgrade at 14^h15, either on Saturday 23 or on Sunday 24. Could you arrange a reservation of a bed* in this train for me, please? (In Prague, I can buy only "open" bed-ticket, the reservation must be made in Belgrade.) I also rely up on you concerning the arrangement of my stay in Belgrade at all - booking a colledge or a hotel for me, sending someone to meet me at the station - may I?

Looking forward to hearing from you soon.

Veřa

Drage kolege Cvetković i Simić,

u poslednje vreme radim na realizaciji ~~rukopisa~~ osnovnih rutina za rad sa grafovima za pojedine reprezentacije grafova. Više o tim reprezentacijama napisano je na zadnjim stranama sastavka "podatkovna struktura graf~~a~~", kojeg prilažem. Izradio sam i (prvu verziju) nacrt programa za crtanje grafova (= kreacija slike + crtanje na plotteru ili grafičkom terminalu).

Osim toga, već od našeg poslednjeg susreta u Beogradu, počeo sam da se bavim induktivnim definicijama klasa grafova. Tako na primer

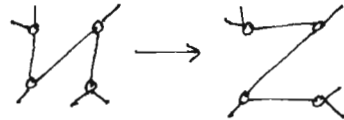
baza



P1.



P2.



određuje klasu svih povezanih kubičnih grafova; a ako razumemo pravila kao realizirana u ravni, klasu svih povezanih planarnih ~~grafova~~ kubičnih grafova. Osim više klasa kubičnih grafova pronašao sam i induktivne definicije regularnih grafova i planarnih grafova. Uskoro ću nešto o tome i da napišem, pa ću vama poslati.

Mislím, da bi induktivne definicije grafova mogle odigrati značajnu ulogu u dokazivanju (i automatskom) teorema teorije grafova, jer za njih važi metod induktivne generalizacije (strukturne indukcije): da dokažemo, da neka osobina P važi za sve objekte iz induktivne klase, dovoljno je da pokažemo da važi za elemente baze i da pravila generisanja tu osobinu ~~zadržavaju~~ prenose sa argumenata na rezultat (ohranjuju?).

Božidar Vasić

ljiljica, 1.4.81

P.S. U vezi sa spektrom grafova mislim da bi bilo interesant. i sastavak E. Z. K. i. koji je isto tako pripreman.

VANDERBILT UNIVERSITY



NASHVILLE, TENNESSEE 37235

TELEPHONE (615) 322-7311

Computer Science Department • Box ~~1679~~⁷⁰, Station B • Direct phone 322-2796

7- April - 81

Dear Dragos,

Thanks for your letter of March 23. It is good to see that you are having some success with your computer project. Of course I am quite happy to send you my catalogues of graphs, but floppy disk will not be a convenient medium. The catalogues are so large that at least four disks (of the sort we have) would be needed. The 9-graphs and the (3-18)-trees together use about 3.6×10^6 bytes. If you want the characteristic polynomials as well, this amount must be increased to 16×10^6 bytes. Still, this is quite within the capacity of a magnetic tape. Please let me know which tape format would be most convenient for you - I can write almost any format here.

Two recent papers may interest you, if you ~~have~~ haven't seen them already:

- ① G. TINHOFER, On the generation of random graphs with given properties and known distribution. in Graphs, Data: Algorithms, Proceedings of the workshop WG78 on Graphs: Concepts in Computer Science, June 15-17 (1978), near Erlangen Edited by M. Nagl & H.-J. Schneider (1979) pp 265-2
{Graphs/connected graphs/trees/bipartite graphs with number of edges/degree sequence etc. The probability a posteriori (i.e. calculated after each object is found

- ② T. BEYER & S.M. HEDETNIEMI, Constant time generation of rooted trees, SIAM J. COMPUT. Vol 9. No. 4 (1980) 706-712. { generates rooted trees without duplicates faster than pre-generated trees could be read from a disk. A similar algorithm for unrooted trees is under development (but it isn't available yet - I tried). }

If you can't get hold of either of these, ask me to send you copies. I have sent a separate package containing a few preprints of my own.

Best wishes

Brendan

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008



April 23, 1981

Professor D.M. Cvetković
Department of Electrical Engineering
University of Belgrade
P.O. Box 816
11.001 Belgrade
YUGOSLAVIA

Dear Professor Cvetković:

Enclosed is a copy of your manuscript, "A Project for Using Computers in Further Development of Graph Theory", as it is typed for printing. Would you kindly proofread it and send the corrected manuscript back to me by May 15, 1981.

Things you will notice are the following:

- (1) Wiley will print the title and authors at the top of the first page.
- (2) The typing does not begin at the top of the page. That is because we are typing on Wiley pages which are not 8 1/2" by 11".
- (3) The diagrams and figures will be drawn by a draftsman.

If you have any questions, please feel free to contact me.

Thank you for your cooperation.

Sincerely,

Don R. Lick

Enclosure

DRL/kmh

V. Trnková

MATEMATICKÝ ÚSTAV UNIVERSITY KARLOVY

PRAHA 8-KARLÍN, SOKOLOVSKÁ 83

Telefon 629-14, 629-15, 628-95

April, 27, 1981

Dear Dragoš,

Many thanks for your letter of April 17, and also for your hospitality. I shall accept your invitation to stay in your apartment with pleasure - if it does not trouble you and your family. Many thanks also for your kindness to help me with the arranging of my trip. Meanwhile, my faculty paid my train-tickets and they bought the tickets in the first class. Would be a trouble for you to change the reservation of the bed in the train Belgrade - Prague to the first class? If there is already no free bed in the first class in the train, I believe that I can travel in the second class having the ticket for the first class - but the first class is surely more comfortable.

I shall be pleased to know the theme of my lecture still being in Prague - I could take the corresponding preprints with me. Do prof. Kurepa and ^{the} young topologists Mrs Mršević and Mr Marjanović know about my arriving? I already met also the Yugoslavian semigroup-theoretist prof. M. Petrič. Is he in Belgrade at present?

Looking forward to meeting you soon

Ljubljana, 11. 5. 1981

Poštovani prof. Cvetković !

Kao što smo se dogovorili prošle godine u Beogradu, drugi seminar Ljubljana-Beograd iz teorije grafova bit će u Ljubljani. Dugo smo kolebali u vezi sa vremenom. Pošto smo mnogo zauzeti, činilo nam se najpovoljnije vreme raspusta. Kako će od 5.-12.7. biti kongres u Mađarskoj, a oko 22.7. kongres u Engleskoj i pošto će biti od 13.7. nadalje u Ljubljani prof. Parsons, izabrali smo 15. i 16.7. kao radne dane seminara.

Možda za vas i kolegu Simića to vreme nije najpogodnije zbog odmora, ali srdačno želimo, da ćete doći u Ljubljanu.

Želeli bismo, da se ovde nadjemo svi oni, koje nas interesira teorija grafova. Gutman je već potvrdio svoj dolazak. Ovih dana ćemo pozvati i Zagrebčane, Acketu iz Novog Sada, bit ćemo ovde svi iz Ljubljane (osim Johna Taylora). Pozive ćemo poslati i Dörfleru i Godsilu u Austriju i Tomo misli, da bi mogao doći još ~~netko~~ netko, koji bi saznao za seminar na kongresu u Mađarskoj.

Molim vas, da pozive, koje prilažem, podelite svima zainteresiranim u Beogradu (Simić, Torgašev, Radisavljević).

Srdačno vas pozdravljam

Bojan Mohar


WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF MATHEMATICS

(616) 383-6165

KALAMAZOO, MICHIGAN
49008

May 13, 1981

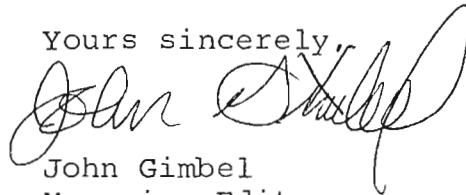
Dragos Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade-- Yugoslavia

Dear Professor Cvetković:

I am sorry I must deliver what must seem like bad news to you. While the enclosed manuscript does seem to have a great deal of merit, we don't have the resources at this time to undertake its publication. Thank you for considering us.

With best wishes,

Yours sincerely,



John Gimbel
Managing Editor
Graph Theory Newsletter

Praha, May 29, 1981

Dear Zora and Dragos',

Let me express once again many thanks for your hospitality. I remember with great pleasure our meeting in Belgrade, Belgrade itself and the nice three days which I spent in it.

I believe to meet you again soon - perhaps in Prague next year?

With the best regards

Věra.



June 11, 1981

Dear Dregos,

Thanks for your letter of June 5. Unfortunately I will away from June 13 until August 30, and so will not have time to prepare your tape until I return. However I will be happy to oblige in early September.

I am a bit confused by your description of the tape parameters. We don't have the facilities for writing a "DECtape", if that's what you mean. In any case a DECtape of the only size I've seen is too small. The files will occupy about 1500ft of tape at 1600 bpi, so a 2400' tape will be needed (the standard tape sizes are 600', 1200' & 2400'). Please find out if any of these possibilities is acceptable: 9-track tape (not DECtape), 1600bpi, no labels, files separated by tape-marks, ASCII, format either:

- (1) Each record fixed number of bytes (80 ok?) with no record terminator. Each block fixed number of records (state how many). OR
- (2) Each record terminated by carriage-return and line-feed characters. Record length variable but bounded. Each block fixed number of records or fixed number of bytes (state which and how many).

I hope I will be able to get you the information somehow. I will be at both the Hungarian & Wales conferences in July. See you at either?

Best wishes,

Brendan McKay.

UNIVERSITY OF CAMBRIDGE

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

16 MILL LANE, CAMBRIDGE CB2 1SB

TELEPHONE (0223) 65621

13 June 81

Dear friend Dragoš,

Enclosed are the 500 Dinars which I was unable to spend at the Beograd airport.

As I simply cannot attend the meeting in Hungary in July, I must ask you to buy two silver plated wine goblets* with this money and bring them to Eger to give to Béla Bollobás who will then bring them to Cambridge for me (He is my colleague here this year.) Perhaps Nada Obradovic can help you to buy these for me. Please give her my regards.

I am truly sorry not to be able to see you again in Eger but I must pack that week to return to Michigan.

(over)

* or other equivalent interesting things

By the way, Dragos, I mentioned
our coming paper (note) giving some
algebraic equations for the various
matrices of a graph at my lecture in
Lancaster. As a result, it has
been invited for publication in the
Matrix and Tensor Quarterly and is
already accepted! So I must ask
you to tell me definitely whether or
not you can send me a draft of
this note in the near future.

Kind regards
and to your family + 2 Simic,

Frank H.

RSVP:

Churchill College
Cambridge CB3 0DS
England

Beograd 15.6.81.

Dragi kolego Mladen,

Hvala na pismu od 11.5.

Roduje me isto se rod mogeg seminaru nastavca. Od Beogradova u Ljubljani bi verovatno došli Trnovec, Radosavljević i je Simicov doktorat je nezvestan jer je upravo tih dana dobio sva. U Beogradu je tokom jula brant prof. M. Doob (brantar baze o spektrima) pa je verovatno i on doći. Pa cu gledati da ovih dana posetim kolege pa cemo vam se još javiti.

Ja bih na seminaru prikazao svoj novi rad pod naslovom "Discussing graph theory with a computer, II, Theorems suggested by the computer". Bilo bi možda atraktivno da neke od seminaara da se demonstrira sistem "Graph". Mi bi mogli poneti sa sobom disk. ako znate da obezbodite jedan PDP computer koji radi sa diskom RK95 i njegovim sistemom RT-11.

Ako imate još jedan primerak Vasieg preglednog rada o spektrima profesora molio bili da mi pošaljete.

Se pozdravom

D. Beković

Mislimo Vas da nam

OUR INSTITUT ZA MATEMATIKU

Telefon: (021) 58-136

Prirodno-matematičkog fakulteta

Univerziteta u Novom Sadu

21001 Novi Sad, p. o. b 224

JUGOSLAVIJA

17. 6. 1981.

Novi Sad.

Dragi kolega Cvetkoviću,

Od kolege Petrića saznali smo da je od interesa proučavanje problema Smirnova. U Referativnom žurnalu 9(1969) našli smo formulu za problem Smirnova koja je vrlo komplikovana i asimptotskog je karaktera. Jasno nam je da problem određivanja broja različitih nizova elemenata iz disjunktnih skupova A_1, A_2, \dots, A_k ($|A_1| = n_1, |A_2| = n_2, \dots, |A_k| = n_k$) u kojima nema uzastupnih elemenata iz istog skupa (a u koje ulazi svaki element tačno jedanput) odgovara problemu određivanja broja različitih Hamiltonovih puteva u grafu K_{n_1, n_2, \dots, n_k} . Takođe, došli smo do zaključka da je broj takvih nizova kod kojih su prvi i poslednji član iz različitih skupova - jednak broju Hamiltonovih kontura u grafu K_{n_1, n_2, \dots, n_k} .

Mi smo, za $k=3$, našli mnogo jednostavniju formulu koja daje broj Hamiltonovih puteva u grafu $K_{m, n, p}$. Formula glasi:

$$H(m, n, p) = m! n! p! \sum_{r=0}^p a_{mn}^r \binom{m+n+1-r}{p-r},$$

de je

$$a_{mn}^r = \binom{m-1}{\lceil \frac{m+n-r}{2} \rceil - 1} \binom{n-1}{\lfloor \frac{m+n-r}{2} \rfloor - 1} + \binom{n-1}{\lceil \frac{m+n-r}{2} \rceil - 1} \binom{m-1}{\lfloor \frac{m+n-r}{2} \rfloor - 1}$$

$\lceil x \rceil$ je najmanji ceo broj koji nije manji od x ; $\lfloor x \rfloor$ - najveći

ceo broj koji nije veći od x)

Mislimo, takođe, da smo dobili i formulu sličnog oblika broja Hamiltonovih kontura u grafu $K_{m, n, p}$, ali još radimo na rivanju toga rezultata.

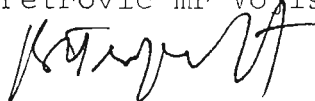
Kao najkompetentnijeg za teoriju grafova molimo Vas da nam date Vaše mišljenje o tome da li je naš rezultat od izvesnog značaja i da li ima interesa dalje izučavanje ovog problema , jer bi eventualno zajedno sa kolegom Petrićem mogli da nastavimo dalja istraživanja u tom pravcu.

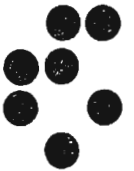
Molimo Vas takodje da nam saopštite detaljnije informacije o simpozijumu u Ljubljani i eventualno o nekim drugim skupovima, mada verovatno mi nećemo ići u Ljubljanu jer ćemo od 6. do 11. jula biti na 6. mađarskoj konferenciji za kombinatoriku u Egeru (i kolega D.Acketa će ići tamo , takodje).

Srdačan pozdrav

Prošćić Ratko

Petrović
Petrović mr Vojislav





MEMO

prejme:

Prof. D. Cvetković

pošilja:

I. Bratko

datum:

17.7.81

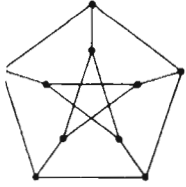
U vezi sa vašim referatom
za Informatiku: Ako referat
prijete do 24.7.81 biće siguran
stampati u zborniku. Poče top roba
još možete pokušati sa velikom
verovatnošću uspeha ali garancija
nije moguća. Dovedite informaciju
možete dobiti telefonom:

dr. A. Želznikar } (061) 312 988
ili ing. Dušan Šalehar }

Sa pozdravima name i Ireni,

Ivan Bratko

P.s.: Molim vas, ako vidite Irenu, da je potsetite
da mi još nije vratila Fujitsu Expert Systems. Hvala.



from 1 Aug

Journal of Graph Theory

FOUNDER-EDITOR

Frank Harary
Department of Mathematics
The University of Michigan
Ann Arbor, Michigan 48109
(313) 763-0153

(1980-81 address)
Department of Pure Mathematics
University of Cambridge
Cambridge, CB2 1SB
ENGLAND

MANAGING EDITORS

Gary Chartrand and Linda Lesniak-Foster
Department of Mathematics
Western Michigan University
Kalamazoo, Michigan 49008
(616) 483-6155

3/July 81

Dear Dragos,

I am sorry that Bollobás did not go to Hungary at the last minute.

Did you receive the dinars?

(Actually Babai + Alspach were at Eger then I saw them in Wales last week but you of course did not know this.)

21. Do you think you will send me anything about the matrices of a graph this year 1981?? Otherwise I shall do it alone.

23. What does the rank of the adjacency matrix mean for
① digraphs?
② graphs?
③ connected graphs?

All best wishes to your family
Frank

Beograd August 10, 81

Dear Frank,

Thank you for your letters of June 13 and July 31. I did receive 500 Dinars but I was not going to Hungarian conference. In these days I shall buy a couple of things for you and wait until an opportunity comes to send them to you.

Unfortunately, I am not in position to send you any material or notices of a paper and probably I shall not be able to do that soon. Namely, at one moment when you were here I had a rough idea to express one matrix by others but I have not written anything and I have forgotten the idea. I only remember that I was going to use some unusual matrix products (e.g. Hadamard product). Please, feel free to elaborate the thing alone.

The question about the rank of the adjacency matrix is very hard. That what I know is expressed in my book on spectra (Sections 8.1, 8.2 and p. ~~92~~ 93).

With kind regards

Yours sincerely
Bogdan

Dear Mr. Dera,

Recently I have learnt that you are going to come to Belgrade on 25 of August and not on 27-th. I am very sorry because I am leaving Belgrade today and will come back on 26-th August in the morning.

Therefore I shall leave here a message to Dr Slobodan Samić meet you on 25-th. Please send exact time of your arrival to both Samić (address as on the envelope) and me (Lazartimova 44). Since I think that Samić and you do not know each other I would suggest that you both carry a phre-^{to}netic book or something, like that. If it happens that you do not meet Samić, you could look for him at the following three private phone numbers 456-379, 458-777 and 458-777. Starting from the 26-th August you can phone me by the alternate number 437-263.

I found for you a cheap room in the student home "Košutićevak" (address BLAGOJA PAVIĆA 156a, phone 559-747). The home is in a suburb of Belgrade but with a good bus connection.

Bojan Mohar
FNT, oddelek za matematiko
Jadranska 19
61001 Ljubljana

Ljubljana, 20. 8. 1981

Prof. D. Cvetković
Elektrotehnički fakultet
Bulevar revolucije 73
p. fax 816
11001 Beograd

Poštovani prof. Cvetković !

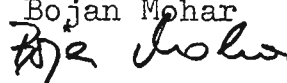
Šaljem Vama kopiju rada: The spectrum of an Infinite Graph.
Ovo je tek preliminarna verzija. Onu pravu, ispravljenu ću
Vam poslati, kad bude uradjena (želio bi to uraditi za 15-30
dana). Molim Vas, da mi javite, ako imate ikakve primedbe na
ovaj rad. Pošto sam početnik u engleskom i u pisanju članaka,
i sve primedbe na engleski, na stil i sve drugo rado ću primiti.

Zasad nisam još odlučio, gde da publikujem, ali sam
poslao i kopiju Godsilu, te mislim, da će mi on savjetovati
neku reviju.

Ostalima (npr. Torgaševu, Petroviću) ću poslati kopije
ispravljene verzije rada.

Za sve se već unaprijed zahvaljujem.

Srdačne pozdrave !

Bojan Mohar


Univerza v Ljubljani

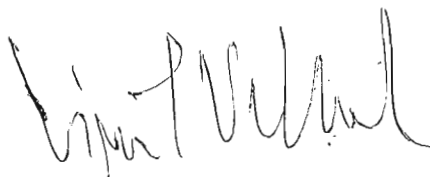
ODSEK ZA MATEMATIKO

61001 Ljubljana, Jadranska c.19
p. p. 543, tel. št. 61 432, 61 564

Ljubljana,

V prilogi vam pošiljamo nekaj xerox kopij poročila o Seminarju iz teorije grafov. Za to vas vljudno prosimo, da nam vrnete 4. številko Obzornika za matematiko in fiziko, katero vam je poslal nas sodelavec Tomo Pisanski. Vzrok za to prošnjo je napaka v tiskarni, kjer so natisnili 50 izvodov premalo.

S spoštovanjem!



Ciril Velkovich

KOMISIJA ZA TISK DMFA SRB
61001 LJUBLJANA pp 227
Jadranska c. 19, soba 313
Telefonska št. 67-081/53
Žiro račun 50101-673-48363

Kragujevac, 16.9.1981.

Dragi Dragoše

Već više dana te bezuspešno pokušavam dobiti na telefon. Imam predosećaj da si se preselio u Novi Beograd. Juće sam bio u Beogradu, ali se nismo mogli sastati.

Zato bih te molio da mi se ti javiš, bilo pismom ili telefonom, i da me obavestiš o tome kako sada možemo da uspostavljam kontakte.

Ja ću i iduće nedelje dolaziti u Beograd.

Ako mi pišeš, onda te molim da mi javiš pune bibliografske podatke (Naslov, izdavač, mesto, godina i dr.) za publikaciju konferencije u Szeged-u 1978. godine.

Pored toga imali bismo sledeće zajedničke stvari za dogovor:

- pripremio sam oba programa koje smo se dogovorili
- Kineski radovi i njihovo prevođenje
- rad na našem zajedničkom problemu u vezi indeksa

Pozdravi
Jvan

Kragujevac, ponedjeljak 21. IX

Dragi Dragoše

U četvrtak ću biti u Beogradu i na-
vratiću na ETF oko podne. Nadam se da
ćeš biti tamo.

Molio bih te da doneseš dva broja MATCHA
koji su kod tebe, kao i da mi pripremiš punu
bibliografiju publikacije iz Szeged-a.

Pozdrav
Ivan

Bojan Mohar
FNT, matematika
Jadranska 19
61111 Ljubljana

Prof. dr. D.M. Cvetković
Elektrotehnički fakultet
Bulevar revolucije 73
11000 Beograd

Poštovani prof. Cvetković !

Pre dva meseca poslao sam vama prvu kopiju rada o spektrima beskonačnih grafova. Sada vam u obliku preprinta šaljem ispravljenu verziju. Rukopis sam poslao u Linear Algebra and Its Appl.

Ako ste uspeli pročitati prvu verziju, u ovoj bi mogli primetiti naredne novosti: četvrto poglavje govori o spektralnom radiusu je sasvim novo. Mislím, da su i rezultati u tom poglavju povoljni. Druga bitna promena : u prvoj verziji "dokazao" sam, da su operatori susjedstva hermitski za sve lokalno konačne grafove. No, ubrzo zatim u dokazu pronašao sam grešku. Zasad još nisam uspio da bilo da dokažem ili opovrgnem kontraprimjerom ovaj loše dokazani stav iz prve verzije rada. Treća promena: izostavio sam dio o proizvodima grafova, pošto ću o tome da napišem drugi rad. (Već sam počeo pisati. Čekam samo još neku reviju iz Zagreba. Bitću gotov za nekoliko dana). Da dodam još ovo: za NEPS grafova i njihov spektar dobije se isti rezultat kao u konačnom slučaju.

Želio bi vas obavjestiti i o tome, da je kolega Batagelj ispravio svoj program za bojenje grafova. Onda smo isprobali bojenje grana onih grafova, o kojima smo razgovarali na našem seminaru u Ljubljani, ali nam nije išlo za rukom. Kod velikih slučajeva (grafova) ~~tek~~ između 100 pokušaja tek u nekoliko pokušaja dobili smo bojenje, koje je zagarantirano sa gornjom granicom u Vizingovom teoremu.

Ja lično mislim, da Vlado ima vrlo dobre algoritme za bojenje grafova. Ali na line-grafovima regularnih grafova očito je bojenje sa što manje boja vrlo teško.

Srdačan pozdrav,

Bojan Mohor

Kragujevac, 28. septembar 1981.

Dragi Dragose

Šaljem ti dogovoreni rukopis. Ispao je malo duži (a dokaz malo komplikovaniji) nego što sam se nadao. Ipak, nadam se da će biti u redu.

Dan posle mog povratka iz Beograda stiglo mi je pismo iz Bukurešta s rukopisom gde J. Vosganian. Ona je odredila triklične grafove koji su maksimalni u odnosu na broj spanivanja ali samo za klasu grafova koji nemaju čvorove stepena većeg od 3. Osim toga dobiveni je rezultat POGREŠAN (lako sam konstruisao protivprimer).

Mislím da bi sada tvoj sistem GRAPH mogao da stupi u akciju. Nadam se da ćemo o tome uskoro razgovarati.

Pozdravi
Ivan

D.Cvetković

Prof. S.B. Rao
Indian Statistical Institute
203 B.T. Road
Calcutta 700035
India

Dear Mr. Rao,

I would appreciate very much if you could send me reprints of your papers "Explored, semi-explored and un-explored territories in the structure theory of self-complementary graphs and digraphs" and "The range of the number of triangles in self-complementary graphs of given order" which appeared in Proc. Symp. on Graph Theory, Calcutta 1976. Is there any way that I get the whole proceedings?

I am recently interested in self-complementary graphs because of a simple result concerning graphs which is given in the enclosed paper (see Theorem 4).

With kind regards,

Yours sincerely

D.Cvetković

Bojan Mohar
FNT matematika
Ljubljana

Dr. Cvetković Dragoš
Bulevar revolucije 73
Beograd

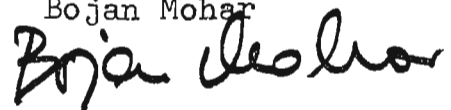
Poštovani prof. Cvetković !

Javljam vam, da je u vezi sa seminarom sve u redu. Herga Janko mi je jučer javio, da dolazite već 14. 7., pa ću za ovu i sledeću noć rezervirati 4 (četiri) hotelska smeštaja. Ako treba više, molim javite mi (predvideo sam Vas, Torgaševa, Gutmana i još jednu rezervu). U vidu, da dolazite već dan ranije, bilo bi nam drago, da se sretnemo već toga dana, pa bi vas molio, da mi saopštite, kojim vozom dolazite, i gde da vas sačekamo - na fakultetu (može i uveče) ili na stanici (to nije toliko sigurno zbog zakašnjenja vozova).

Druga stvar, u vezi koje vam pišem, tiče se jedne male molbe. Naime, trebao bi dobiti na uvid jednu knjigu, koje u Ljubljani nemamo. Radi se o knjigi autora Bondy i Murty (Graph Theory ...), koju vi (biblioteka) sigurno imate. Zbog toga bi vas molio, da knjigu donesete sa sobom, ako je to moguće. Već unaprijed ~~se~~ zahvaljujem .

Srdačni pozdrav

Bojan Mohar



April 22, 1981

Professor D. Cvetkovic
Professor S. Simic
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816, 11001 Belgrade
Yugoslavia

Dear Professors Cvetkovic and Simic:

We are writing in response to your request that we send you Reviews in Graph Theory rather than Mathematical Reviews.

Unfortunately, you each receive a \$70 credit for 1981, which would total \$140, and the cost of Reviews in Graph Theory costs \$200.

Since prepayment is required, we are unable to send you this publication.

If you still wish to receive it, please send us an additional \$60, along with the enclosed copy of this letter, to the following address:

American Mathematical Society
P.O. Box 1571
Annex Station
Providence, RI 02901

Upon receipt of your additional remittance, we will gladly enter your order.

We look forward to hearing from you soon.

Sincerely,

(Mrs.) ena M. Harty
Membership & Sales

RMI/amt

cc. fiscal

Beograd 13.10.1981.

Draži Zorane,

Izajem Ti Adst neola o tome smo
prišli. Molim Te da izmene, dopune itd.
pošleš - a par nedelja. Istovremeno izajem
rad Dob-u. Namera mi je da se rad pošle
u European J. Combinatorics.

Konjičaje sistema "Graph" za nova istra-
živača možemo da nastavimo. Za rad bi
bilo zgodno poslednje svedop dane, ali bi
moraš do mi najpriš dobiti nekoliko dana
unapred (pisnom ili na telefonu na Fakultetu
329-212 lokal 360; najverovatnije vreme
kada sam na Fakultetu je 11-11¹⁵ urolj
dane). Jedino treba da imas u vidu da svake
druge nedelje, počinj od sutre, islem^(fotoduje) u Svetosorevo
(reali časova) a vraćam se u isbrtaš do. podne.

Se podrobnom

Draže



The University of Michigan

DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING

ANN ARBOR, MICHIGAN 48109

October 19, 1981

(313) 764-6485

Dear Dragos,

Now that I am back in Michigan, please do not send anything for me to England. If you can think of something small enough to mail, then it can be sent by airmail directly to me here.

In your book on the spectrum of a graph, did you ever say anything about the spectrum of a signed graph in which the corresponding matrix has elements which are 0, +1 and -1? I don't know where in your book to look for it, so if you can find it, kindly send me a page number.

Best wishes, *and to Simić and to your family.*
Frank
Frank Harary

FH/dal

D.Cvetković

20.10.1981



Prof. R.P.Boas
Department of Mathematics
North-Western University
Evanston, Il. 60201
USA

Dear Professor Boas,

Please find enclosed herewith three copies of the manuscript "Discussing graph theory with a computer II, Theorems suggested by the computer". I am asking you most kindly to consider this paper for publication in Amer. Math. Monthly.

With kind regards,

Yours sincerely

A handwritten signature, appearing to be 'D.C.', is written over the typed name.

D.Cvetković

Dr Jerzy Topp
Institute of Math.
Technical University
80-233 Gdańsk
Poland

Gdańsk, 26. 10. 81.

Dear Sir,

I should be grateful if you could let me have a reprint of your papers:

- (1) Graph equations, Publ. Inst. Math. (Beograd), 20(34)(1976), 59-66;
- (2) Graph equation for line graphs and total graphs Discrete Math. 13(1975), 315-320;
- (3) Graph equations, In: Beiträge zur Graphentheorie T.H. Ilmenau, Ilmenau (1978), 40-56;
- (4) A graph equations, J. Graph Theory 3(1979), 311-324;
- (5) Some results on generalized line graphs, C. R. Math. Rep. Acad. Sci. Canada 2(1980), 147-150;
- (6) Generalized line graphs, J. Comb. Theory (?), and your other publications on the related subjects.

Thank you very much.

Sincerely yours



The Mathematical Association of America

PUBLISHER OF

THE AMERICAN MATHEMATICAL MONTHLY

P. R. Halmos
Editor

Department of Mathematics
Indiana University
Bloomington, Indiana 47405
(812) 337-8865

4 November 1981

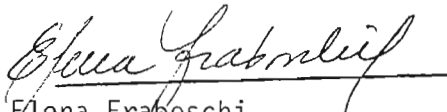
Professor D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
P.O. Box 816
11001 Belgrade, Yugoslavia

Dear Professor Cvetković:

This is to acknowledge receipt of your paper titled "Discussing graph theory with a computer II, Theorems suggested by the computer", which Professor Boas transmitted to Professor Halmos since all papers received from now on will appear under Professor Halmos's editorship.

Professor Halmos is out of the country (in Dubrovnik, to be precise). I shall bring your manuscript to his attention when he returns, around November 18th.

Sincerely yours,



Elena Fraboschi
Secretary to Professor Halmos

D.Cvetković

20.10.1981



Prof. R.P.Boas
Department of Mathematics
North-Western University
Evanston, Il. 60201
USA

Dear Professor Boas,

Please find enclosed herewith three copies of the manuscript "Discussing graph theory with a computer II, Theorems suggested by the computer". I am asking you most kindly to consider this paper for publication in Amer. Math. Monthly.

With kind regards,

Yours sincerely


D.Cvetković

10.11.1981

Prof. Dr. B.D. Mackay
Vanderbilt University
Department of Computer Sciences
Nashville, Tennessee 37235
USA

Dear Brendan,

Thank you for your letter of July 16 written in the car when leaving Ljubljana. Your ~~answer~~ to my problem about the least eigenvalue of a graph is certainly very simple and elegant. If you do not have a nice way to include this result into a bigger paper, I would suggest that you write a short paper, say under the title "A note on the least eigenvalue of a graph". I would send the paper together with my report about it to ~~Journal~~ of Graph Theory if you wish.

Enclosed is the paper about which I was talking in Ljubljana. The system "Eraph" now has the facility of drawing and modifying a graph by a light pen.

With kind regards,

Yours sincerely

D.Cvetković

21.12.

Dr.H.B. Walikar
Dept.Math.
Kavnavatak Arts College
Dharwad 580001
India

Dear Dr. Walikar,


Thank you for your letter of December 5, 1981. Unfortunately reprints of my papers you ~~wanted~~ are not available any more. However, the content of these papers is almost entirely reproduced in the recent book. D.Cvetković, M.Doob,H.Sachs, Spectra of graphs -Theory and Application, Academic Press 1980.

The thesis of Gutman is written in Serbo-Croatian (one of Yugoslav languages) and therefore very likely non-understandable for you. However, Gutman's results are published in different publications and for reprints you may write directly to him on the address: I.Gutman, Zavod za hemiju, Prirodno-mat. fakultet, R. Domanovića 12, 34000 Kragujevac, Yugoslavia.

Yours sincerely

D.Cvetković

26.12.1981



Dr. E.S. Ščerbakov
191025 Leningrad
Newsky 82-6
Soviet Union

Dear Dr. Ščerbakov,

Since I have a lot of papers dealing with graph
and, in particular, with graph spectra, I am sending
you only a couple of papers which, I think, are the
most informative for you.

Yours sincerely

D.Cvetković

Profesore, kakor za sada nisam
u mogućnosti da dođem, pošaljite mi
poštom potrebnu dokumentaciju sa
odgovorima.

Ne znam tačno ni kada ću moći do
dođem. Možda krajem avgusta.

Činila sam svoju odužbu, jedini uspjeh iz
svog rada (maži je na od sustran) to je
da Bog avgusta, kako sam najavljuje,
nisam ni slučajno mogao doći.

Uzgred, sada se nalazim na jednom
planinskom vrhu.

S Pošti vašem

Jovanović Miroslav

Pravo ispuha u novoj 1982. godini.
nam Felh.

Seminari 17 Teoriji Grafar

Tavolh.

✓

Boja Ucho

~~Protog.~~
John S. Gaudre & Taylor

Janako Stegza

Amulo Petkovich

Dr. D.V.S. SHASTRI

16, RBI Quarters

15-1-82

Dr. Charat Singh Colony
CHAKALA, ANDHERI (E)
BOMBAY 400093

Dear Professor Cvetkovic,

your paper "The Spectrum of Total
graph of graph" has further ^{created} interested ⁱⁿ me
to reading more papers on that branch.

Therefore, I request you to send me your
work (or of your associates) preprints of
reprints on the spectra of graphs.

Please do not consider this as

~~formal request.~~

Hope you will send

with best regards

yours sincerely
D.V.S Shastri.

Prof Dragoš M. Cvetković
Faculty of Electrical Engg
The University of Belgrade
Yugoslavia.

हवाई पत्र
Aerogramme



To
Professor Dragos M. Cvetkovic
Faculty of Electrical Engineering
The University of Belgrade,
Belgrade, YUGOSLAVIA x

दोसरा मोड़ SECOND FOLD

भेजने वाले का नाम और पता:-
Sender's Name and Address:-

Dr DVS SHASTRI, 16 RBICOT
Dr Charatsingh Colony,
Chakala, Andheri (E). 400093
Bombay.

इस पत्र के अन्दर कुछ न रखिये
No Enclosures Allowed

पहला मोड़ FIRST FOLD

Department of Mathematics,
Karnatak Arts college,
Dharwad - 580 001,
India. ✓

5th Dec. 1981.

Dear Sir,

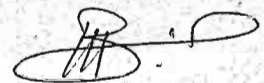
I will appreciate, if you could kindly send the following papers entitled, viz.

- (1) Graphs and their spectra,
 - (2) Spectrum of the graph of n -tuples.
- and other related topics.

And also, if possible, kindly send a copy of the thesis "Contribution to the spectral theory of trees" by your student- Dr. Ivan, Gutman.

Thanking you Sir.

Yours Sincerely



हवाई पत्र
Aerogramme



Dr. D. CVETKOVIC
University of Belgrade,
Bulevar, Revolucije, 73, P.O. Box
816, 1100 Belgrade - Yugoslavia
YUGOSLOVIA

दूसरा मोड़ - SECOND FOLD

भेजने वाले का नाम और पता:
Sender's Name and Address:

Dr. H. B. Waktar
Dept. Maths, Karnatak
Arts college, Dharwad - 580001
India

इस पत्र के अन्दर कुछ न रखिये
No Enclosures Allowed

पहला मोड़ - FIRST FOLD



Redakcija časopisa SCIENTIA YUGOSLAVICA
ASOCIJACIJA NAUČNIH UNIJA JUGOSLAVIJE
ASSOCIATION OF THE SCIENTIFIC UNIONS OF YUGOSLAVIA

Trg maršala Tita 3
p.p.327, 41001 Zagreb
tel: 448071, 448072

Dr D. Cvetković
Elektrotehnički fakultet


Bul. revolucije 73
11000 B E O G R A D

Cijenjeni kolega,

Posebnom pošiljkom primit ćete primjerke časopisa Scientia Yugoslavica u "novom ruhu" u znak zahvalnosti što ste se bili odazvali pozivu Redakcije i napisali revijalni članak. U nadi da ćete i ubuduće biti našim suradnikom kad se Vaš interes bude našao unutar programske orijentacije Sci.Yugosl., molimo Vas za iskrene kritičke komentare ovog našeg pokušaja na planu višestruke integracije znanosti i društva.

Želeći Vam sve najbolje u 1982.,

S kolegijalnim pozdravima


S. Maričić

The Mathematical Association of America

PUBLISHER OF

THE AMERICAN MATHEMATICAL MONTHLY

P.R. Halmos
Editor

Department of Mathematics
Indiana University
Bloomington, Indiana 47405
(812) 337-8865

11 January 1982

Professor D. Cvetkovič
Faculty of Electrical Engineering
University of Belgrade
P.O. Box 816
11001 Belgrade, Yugoslavia

Dear Professor Cvetkovič:

I have the referee's report on your paper titled "Discussing graph theory with a computer II, Theorems suggested by the computer".

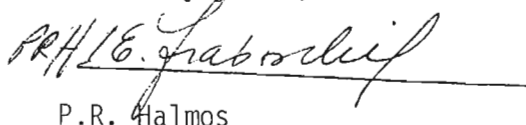
The referee does not suggest that the paper be rejected, but, at the same time, he feels that he cannot recommend acceptance without some thoroughgoing revisions. He writes, in part, as follows.

"The thrust of this paper is 'here are some juicy things I found while using my graph theory package on my computer'. But this would amount to an intellectual strip-tease to our audiences, because they would want to know the details about the graph package as well. What capabilities, precisely, does the package have? How does one use it? On what computers can it be implemented? How can we get our mitts on it?"

Incidentally, both the referee and I were puzzled by the "II" in the title. We eventually decided that "I" is reference #7, but this should be made clear in the paper.

I realize that the report, while definite, is not helpful in a detailed way. It does, however, say something, and I hope that you'll take what it says seriously and kindly. We might have a very good paper for the Monthly here, but the exposition will have to be revised considerably to make it so. I hope you will find it possible to do so; I would like to see papers like yours published.

Sincerely yours,


P.R. Halmos

PRH:ef

Bucarest, 29.01.1982 ✓

Dear Sir Cvetrovič

I am a student in the fifth years of specialization in Bucarest, at the Faculty of Mathematics.

Two years ago I've started to study the N. Biggs' book "Algebraic Graph Theory", and I was attracted especially by the chapters of spectra of graphs; so by trying to study it thoroughly I was very interested in your Doctoral Dissertation as well as in your published articles in "Publ. Elektrotehn. Fak."

In my country, professor A. F. Balaban is interested in the theory of spectra of graphs (and especially concerning the relations between this theory and the chemistry) and was very kind to help me in consulting some of the chapters (xeroscopy) of your excellent book "Spectra of Graphs, Theory and Application" that you've published in collaboration with H. Sachs and M. Soob in 1980.

My graduation paper presented in 1981 as well as my specialization paper in this year are treating about problems connected to the spectra of graphs.

So, I've calculated the spectra of complete k -ary trees (it will be published in "Stud. Cerc. Mat.") and now I'm working to a paper about algebraic structures of some class of eigenvalues of graphs. If you are interested in this subject I'll write you in details.

I took the liberty of writing you not to make me publicity myself, but only because I have a great favor to ask for you.

Having difficulties in my documentation because the mathematical libraries from Bucarest don't have some periodicals (or certain numbers of that ones) which I'm interested in, I will demand you, in the case you have a copy of certain articles you don't need any more, to sent me some of them. I join here a list with all the needed articles and my adress.

I'm also asking you, if you have any other paper of another member of the "Jugoslav School of Spectra of Graphs" (or another author) I'll be obliged to send to me.

Thank you
Ch. Răuț

My addresses

1. In Bucarest

RĂUȚ GHEORGHE
FACULTATEA DE MATEMATICĂ
STRADA: ACADEMIEI 14
BUCUREȘTI

2. At home

RĂUȚ GHEORGHE
SAT² VÎRTOPU 48
COM: CIUPERCENI
JUD: GORJ
COD: 1415

The list of needed papers

1. Bihromatičnost i spektra grafa (Serbo-Croatian), Mat. biblioteka, No 41, Beograd 1969, pp 193-194
2. Connectedness of the p -sum of graphs. Univ. Beograd Publ. Elektroteh. Fak. Ser. Mat. Fiz., No. 274-No 301 (1969), 96-99
3. Spectrum of the graphs of n -tuples, — 4 —, 91-96
4. The Boolean operations on graphs - spectrum and connectedness (summary). V. Kongres mat., fiz i astr. na jugoslavija, Ohrid 1970; Zbornik na trudovite, tom I, Skopje 1973, pp 115-119
5. Die Zahl der Wege eines Grafen. Glasnik. Mat., Ser II, 5(25) (1970), 205-210
6. New characterizations of the cubic lattice graph. Publ. Inst. Math. (Beograd) 10(24) (1970), 195-198
7. The spectral method for determining the number of trees. Publ. Inst. Math. (Beograd) 11(25) (1971), 135-141
8. Chromatic number and the spectrum of a graph. Publ. Inst. Math. (Beograd) 14(28) (1972), 25-38
9. Inequalities obtained on the basis of the spectrum of the graph. Studia Sci. Math. Hung. 8 (1973), 433-436
10. Spectrum of the total graph of a graph. Publ. Inst. Math. (Beograd) 16(30) (1973)
11. On a graph theory problem of M. Kowan. Časopis Pěst. Mat. 98 (1973), 233-236
12. The determinant concept defined by means of graph theory. Mat. Vesnik 12(27) (1975), 333-336
13. Cubic integral graphs. Univ. Beograd Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No 498-No 541 (1975), 107-113.
14. Spectra of graphs formed by some unary operations. Publ. Inst. Math. (Beograd). 49(33) (1975), 37-42

15. The main part of the spectrum, divisors and switching of graphs. Publ. Inst. Math. (Beograd). 23(37)(1978), 31-38
16. The algebraic multiplicity of the number zero in the spectrum of a bipartite graph. Mat. Vesnik 9(24)(1972), 141-156.
17. Kekule structures and topology. II Cata-condensed systems. Croat. Chem. Acta 46(1974), 15-23.
18. Note on branching. Croat. Chem. Acta. 49(1977), 115-121.
19. Graph theory and molecular orbitals, II Croat. Chem. Acta 44(1972), 365-38.
20. Kekule structures and topology. Chem. Phys. Letters 16(1972), 614-16.
21. Conjugated molecules having integral graph spectra. Chem Phys. Letters 29(1974), 65-68
22. Graph theory and molecular orbitals VII. The role of resonance structures. J. Chem. Phys. 61(1974), 2700-2706
23. There are exactly 13 connected cubic integral graphs. Univ. Beograd Publ. Elektrotehn. Fak. Ser. Mat. Fiz., No 544-No 576 (1976), 43-48
24. The reconstruction problem for charact. polynomials of graphs. Univ. Beograd Publ. Elektrotehn. Fak. Ser. Mat. Fiz., No. 498-No 541 (1975), 45-48
25. Graph theory and molecular orbitals, IX. On the stability of cata-condensed hydrocarbons. Theoret. Chim. Acta 34(1974), 129-136
26. Graphical studies on the relation between the structure and reactivity of conjugated systems: The role of non-bonding molecular orbitals. J. Mol. Struct. 28(1975), 289-303.
27. An elementary proof of Lloyd's theorem. Proc. Kon. Nederl. Acad. Wetensch. Ser. A, 80(1)(1977), 6-10.
28. Über die Zerlegung eines Graphen in ein Produkt von Graphen XVIII Just. Wiss. Koll. T H Ilmenau 1973. Reihe A2, 57-58
29. On enumeration of certain type of sequences. Univ. Beograd Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No 412-No 460 (1973), 159-164.

"Thank you very much!"

Poštovani profesore Cvetkoviću!

Primio sam vaše pismo i obavestio je da ima grešaka nije me iznenadilo. Veliki broj programa, koji nisu bili istestirani u celini, to je teško mogao izbeći.

Sa mogućnošću mog dolaska u Beograd stvari stoje ovako

Razgovarao sam i sa starešinama.

Trenutno se spremam za glavnu proveru ^{obuke} koja će biti 21-og juna.

Posle toga se vraća jedan deo opreme, a 25-og juna idem u prekomandu.

Od 12-og su svi vojnici u tzv. karantinu, ne mogu ni da izlaze u grad.

Tako, iz Sombora veću moći da dođem.

Medutim, pošto sam se potrudio da budem dobar vojnik, mogu se pohvaliti, gotovo je sigurno da ću dobiti 5 dana nagradnog odsustva.

Nastojacu da ga, čim dođem u mesto prekomande, što pre iskoristim i dođem na dogovor sa Vama i otklonim postojeće greške.

Takođe, gotovo je sigurno da ću u prekomandi, kao dobar vojnik, imati na raspolaganju mnogo slobodnog vremena i moći da pomognem još na razradi programskog sistema.

U svakom slučaju du Vas obavestiti
o daljem razvoju događaja.
Pošto verujem da ovo pismo neće
doći kasno, možete mi poslati u
novom pismu u vezi sa delovima
programskog sistema noćne greške.

S poštovanjem

Miroslav Jovanović

VP 3065/11

25105 Sombor

Doškovacii profesore Cvetković,

Došlo vas računom uopće telefonom
moji kod mene to vam ovisi putem obave-
štavanja da vam pošiljam ovaj ste mi po-
slali prijatelj. Ovo od predložene (profesor)
nam u nedjelju ali ne me. Do, to znam da
nam se javiti krajem augusta ili početkom
septembra.
Sa pozdravom J. Petrić.

01.08.82.

Poštovani profesore Cvetkoviću

Vaše sam pismo, iako preporučeno, iz neobjašnjivih razloga primio tek 12-og. Tako da ovo moje dobijate tek posle odmora.

U međutim, odbranije sam rešio da dođem kada Vi budete u Beogradu.

Razgovor uživo je po pravilu korisniji nego prepiska.

Sa druge strane, iz Vašeg sam pisma zaključio da nije sigurno da li bih i Krausa našao, ako bih došao u julu.

Šta se tiče slanja dokumentacije, neće biti nikakvih problema. Sve potrebno možete mi poslati u paketu, sa istom adresom, To da držati u vojnoj kaseti.

Sa pozdravom

Jovanović Miroslav

29.1.1982

Dr. D.V.S. Shastri
16, RBI Quarters
Dr. Charat Singh Colony
Chakala, Andheri (E)
Bombay 40093
India

Dear Dr. Shastri,

Thank you for your letter of January 15.

Concerning spectra of graphs, I would suggest that you find the book:

D. Cvetković, M. Doob, H. Sachs, Spectra of graphs - Theory and Application, Academic Press, New York 1980.

Second printing of the book will come out soon.

Second print wish any particular paper of mine I shall send you.

With kind regards,

Yours sincerely

D. Cvetković

(M/4 5T 2 PA) No.

D.Cvetković

1.2.1982

Prof. P.R. Halmos
Editor of Amer. Math Monthly
Department of Mathematics
Indiana University
Bloomington, Indiana 47405

Dear Professor Halmos,

Thank you for your letter of January 11.

I shall try to make my paper "Discussing graph theory with a computer II, Theorems suggested by the computer" acceptable for Amer. Math. Monthly. I shall send a revision of the paper in a few weeks. In the meantime I am sending you a copy of the first part of the paper (enclosed herewith) as well as another paper from the list of references for your information.

With kind regards,

Yours sincerely

D.Cvetković

8 Februar 1982 ✓

E. R. A. 452 du C. N. R. S.
"AL KHOWARIZMI"

LABORATOIRE DE RECHERCHE
EN INFORMATIQUE

Bâtiment 490 - 91405 ORSAY Cedex
Tél. (6) 941.66.29

Dear Professor Cvetković,

Several months ago, M. Deza told me that you asked him about me when you met him in Yugoslavia.

I don't work any more on spectra of graphs (but enjoy very much your book on this subject) and defended my thesis in 1980 on cycles.

I spend many time in teaching and live alone with my three girls (who are 7, 4 and 4 years old) so I can't give sufficient time for research.

I should be very happy to see you (and M. Gutman) again at some congress or in France.

Best wishes

m. Claude HEYDEMANN

PS: I send you a list of our publications in Orsay.

80100 NAPOLI

Napoli, 9.2.1982

Mercato a Porta Capuana
Marché à Porte Capuana
Market at Capuana Gate
Markt am Capuana Stadthor

Draži prof. Gostković

Opisli suvi priručnik na treće

debla. Izvedbi ostalo je 29.5.1981

prelepnu knjigu. Arhivsko veći broj

izveća računara. Izdati je

stela T. Ispisala da vani.

$\Delta(T^m) \leq \chi(T^{2m}) \leq \Delta(T^m) + 1$

$\chi \dots$ blizinski broj $\Delta(T^m)$

$\Delta \dots$ maksimalni stepen

$T^m \dots$ čestiti su suvati ako su

na razdaljinu m u T .

Problem: Odrediti što znači otvara

T , tada $\chi(T^{2m}) = \Delta(T^m) + 1$

upr. za $m=2$. M

Stampato in Italia / Ediz. CO. VE. S. / NAP 217/225 / Stampato in Italia



Prof. Dražo Gostković

LARIETI 44

11000 BEOGRAD

UGOSLAVINA

Bombay ✓

25-2-1982

Dear Professor Cvetković,

Thank you very much for your letter dated 29-1-1982.

Accordingly, I have enquired for the book you suggested and found that it is not available in India. As such I can't say when the second printing will be available. I am trying to procure this book.

Meanwhile, may I request you to send me your latest reprints / preprints on this topic. I will be highly obliged if you can send me a copy of ^{your} lecture notes on spectra of graphs.

with kind regards

yours sincerely
DVS Shastri

To
Professor D. Cvetkovic

हवाई पत्र
Aerogramme



To
Professor D. CVETKOVIĆ

Faculty of Electrical Engineering

University of Belgrade,

Bulevar Revolucije, 73, P.O. Box 816

11001 BELGRADE, YUGOSLAVIA

दूसरा मोड़ SECOND FOLD

भेजने वाले का नाम और पता:-
Sender's Name and Address:-

D. V. S. Shastri,

16A, RBI Quarters,

Dr. Charat Singh Colony,
Chakala, Andheri (E)

BOMBAY, 400093.

इस पत्र के अन्दर कुछ न रखिये
No Enclosures Allowed

पहला मोड़ FIRST FOLD

VANDERBILT UNIVERSITY



NASHVILLE, TENNESSEE 37235

TELEPHONE (615) 322-7311

Department of Mathematics • Direct phone 322-6672

February 26, 1982

Dear Prof. Cvetkovic

Please excuse the lack of personal touch with this type letter, but I am trying to dredge up information, if it exists, concerning the following problems and I am writing to quite a number of people.

1. Do you know if any computer checking for small cases has been done at all on Barnette's conjecture:

Every cubic three-connected bipartite planar graph has a Hamiltonian cycle.

2. It is well-known now that it is false that every cubic 3-connected planar graph has a Hamiltonian cycle. I am aware that the smallest known counterexamples all have 38 points. In a paper in J.C.T. in 1973, Jean Butler proved that no counterexample exists with fewer than 24 points and that no cyclically exactly 3-line-connected counterexample exists with fewer than 38 points.

Do you know of any work further closing the gap? That is, do you know of any progress toward showing that no counterexample exists with fewer than 38 points?

I shall appreciate any facts (or rumors!) you can supply. If it is more convenient, do not hesitate to jot down what you know on the other side of this letter and send it back to me at the Vanderbilt address address shown.

Thanks very much.

Sincerely yours,

Mike Plummer

M. D. Plummer

27. 02. 1982

poštovani profesore,

Šaljem Vam poslednju verziju prevoda, nakon korekcija koleginice
koja je dala prvobitnu verziju. Nadam se da u ovoj verziji neće
biti mnogo korekcija i da ćemo je moći poslati.

Da našeg sledećeg susreta ću pripremiti ulazne podatke za
test primere, a i male izmene u potprogramu a veći su
ograničeni na petocifrene brojeve (ju sam koristio desetocifrene).

Puno Vas pozdravljam

Helena

Melbourne, 05.03.

Dr. Dragos Cvetkovic

Postovani profesore,

Dozvolite mi da Vam se obratim kao Vas bivsi student a sada postdiplomac na "FLORIDA INSTITUTE OF TECHNOLOGY". Kako ste mi onda izasli u susret sa dobrom preporukom, to sam odlucio da Vas ponovo zamolim za isto. Naime, posto nisan prezadovoljan ponudjenim kursevima, kao i nacinom izvodjenja nastave to sam odlucio da pokusam transfer na drugi univerzitet (u ovom slucaju University of Washington). Kako zbog obaveze da uzmem kurs Engleskog nisam bio u mogucnosti da pohadjam sva tri kursa u prvom kromjesecu to sam mogao da zamolim samo dvojicu ljudi da mi daju preporuke.

Mislím da bi bilo dovoljno da napisete svega nekoliko recenica koje bi sadrzavale ocjenu iz Diskretne matematike (9) juna '80 i cinjenicu da sam u okviru seminarskog rada programirao algoritme za operacije nad grafovima. Nadam se da necu pretjerati ako Vas, na kraju, zamolim da preporuku posaljete direktno na adresu naznacenog univerzitete.

s postovanjem
Dusan Damjanovic



D.Cvetković

9.3.1982

✓

Prof. A. Blass
Department of Mathematics
University of Michigan
Ann Arbor, MI 48109
USA

Dear Professor Blass,

Enclosed is a paper by P. Hotomski. Mr. Hotomski is a collaborator on the project "Graph" which contains a mechanical theorem prover for graph theory theorems and about which we were discussing when I was visiting Ann Arbor in 1980. Mr. Hotomski has an intention to write a Ph.D. Thesis in Mathematics based on the results from this paper.

If your duties that admit, I would ask you most kindly to look at this paper and tell me your opinion about the value of the results contained.

With kind regards,

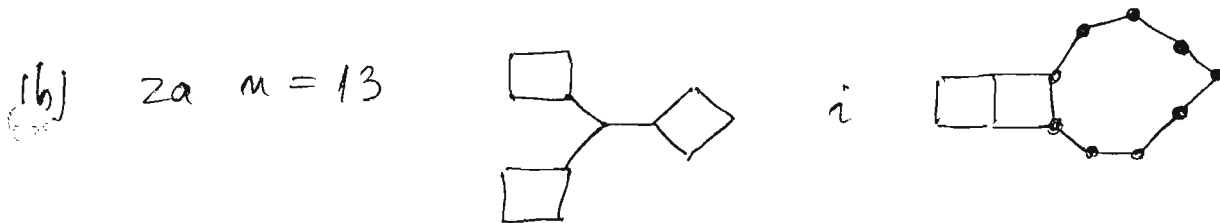
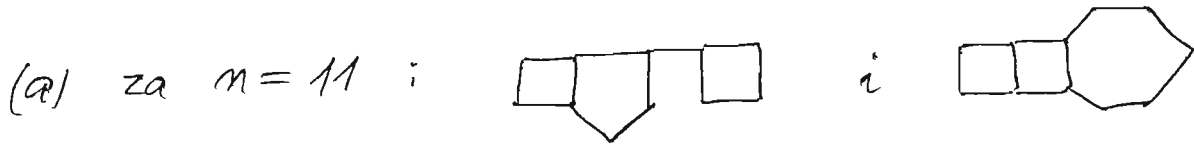
Yours sincerely


D.Cvetković

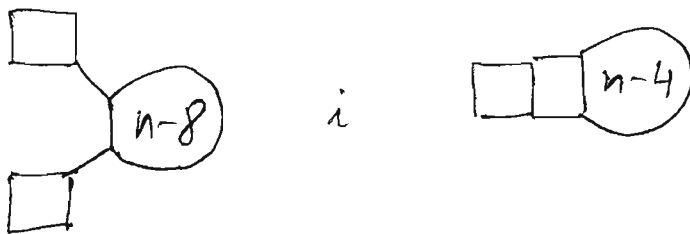
Kragujevac, 10. III 1982.

Dragi Dragosë

Maksimalni triciklički grafovi su



(c) za $n=12$ i $n \geq 14$



Za $n \leq 10$ ćemo lako, Srdačni pozdravi

Ivan

15.3.1982

Prof. P.R. Halmos
Editor of Amer.MathMonthly
Department of Mathematics
Indiana University
Bloomington, Indiana 47406

Dear Professor Halmos,

Please find enclosed herewith a revision of my paper "Discussing graph theory with a computer II, Theorem suggested by the computer". I did the following changes:

1. The fact that the paper is the second part of previous paper is now indicated in the abstract.

2. I inserted a text (page 3) describing very shortly how the system "Graph" works. Also basic data about computer used and the programming language are given. Interested reader may consult part I if he is really interested in details about system "Graph".

3. A new case treated by "Graph" (page 7) is included.

4. Some misprints are corrected and some other slight modifications performed.

I admit that my writing style is may be not sufficiently good for a paper of this type in a journal like Amer.Math. Monthly. But I am afraid that in that case I cannot improve the paper substantially. You will find a decision about it.

With kind regards, Yours sincerely

D.Cvetković



Ljubljana, 15. 3. 1982

Poštovani profesore Cvetković!

Šaljemo vam dva članka za objavu u Publ. Elektr. Fak. Serija Mat. Fiz. ili bilo kojoj drugoj reviji, koju bi Vi predlagali. Članke 1-factorization of the composition of regular graphs i Edge-coloring of a family of regular graphs Vam šaljemo u dve kopije.

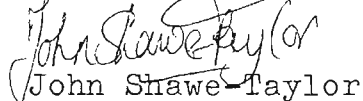
Oba članka su bila nažalost odbijena od strane TAMS odnosno QJM, mada ne zbog greški (pogledati priložene kopije pisama).

Nadamo se, da Vam se prilozi čine vrijedni objave. Molimo Vas, da nam odgovorite za koju reviju ste predložili članke.

Uz srdačan pozdrav

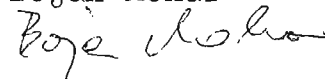


Tomaz Pisanski



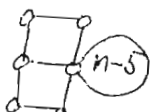
John Shawe-Taylor

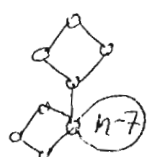
Bojan Mohar



Kragujevac, 29-30. III 1982

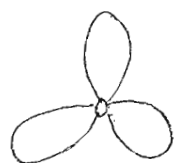
Dragi Dragose

Najveći element u klasi C_3 je  ($n \geq 8$).

Najveći element u klasi d_4 je  ($n \geq 10$)

A sada veliko iznenađenje:

Izgleda da klasa d_5 , tj. grafovi oblika



, predstavlja izuzetak. Ne samo da u toj klasi nema najveće klase s-ekvivalencije, već sam (za $n \leq 16$) proveo i sledeću fantastičnu tvrdnju:

SVI GRAFOVI IZ KLASSE d_5

(sa n čvorova) SU MEĐUSOBNO NEUPOREDIVI

Ovo važi za $n \leq 16$, a da li važi uopšte mi ti znam mi ti znam postupak da dokažem.

Molim te da o ovom neočekivanom otkriću razmisliš, a ja ti se i inače javljam telefonom.

Srdačni pozdravi
Jovan

P.R. Halmos, Editor
The American Mathematical Monthly
Department of Mathematics
Indiana University
Bloomington, Indiana 47405



Professor D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade, Yugoslavia

AIR MAIL

29 March 1982

Dear Professor Cvetković:

Your paper "Discussing graph theory" (revised) has been received and will be sent to a referee.

I shall be in touch with you as soon as I have a report.

Sincerely,




P.R. Halmos

BEOGRAD 5.4.82.

Dragi Ivane,

Šaljem Ti rezultate izračunavanja za preostale grafove. Nadam se da je cela posao završen.

Što se tiče grafova oblika 

Čini mi se da bi se moglo pokazati sledeće.

Ako su c_1, c_2, c_3 dužine kontura a n ukupni broj čvorova tada je $c_1 + c_2 + c_3 = n - 2$. Graf je u potpunosti određen particijom broja $n - 2$ na tri sobirka. Verovatno se može odrediti polinom spajivanja (ili broj $p(G, k)$) za naveden graf u funkciji c_1, c_2, c_3 . Verovatno postoji redukciona formula za polinom spajivanja za graf sa artikulationim čvorom. Fraktalno je taj deo zadržao rešen. Neka su G', G'' dva grafa iz ove klase određeno particijama c_1', c_2', c_3' i c_1'', c_2'', c_3'' . Verovatno se onda mogu ući dve prijedne redukcije k_1 i k_2 (za koje više nezgodnosti line $f(c_1', c_2', c_3', c_1'', c_2'', c_3'') \leq k_i \leq g_i(c_1', c_2', c_3', c_1'', c_2'', c_3'')$, $i = 1, 2$) takve da je $p(G', k_1) < p(G'', k_1)$ i $p(G', k_2) > p(G'', k_2)$.

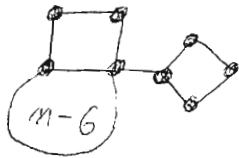
So pozdravom

Dragos

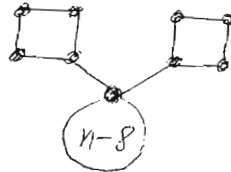
Kragujevac, 6. IV 1982.

Dragi Dragoše

Najveći elementi klase c_2 i d_1 su :



odn.



. Time je

posao završen, osim što za grafove oblika



ne znamo šta da radimo.

Srdacim pozdravi

Jovan

Beograd 26. 4. 1982.

Dear Mr. Seidel,

Enclosed is a paper of A. Torgašev, a younger colleague of mine from Belgrade University, which describes an extension of the root system story to the infinite case. Of course, the author would appreciate any comment of yours concerning the paper. The paper is submitted for publication to one of our domestic journals.

Some time ago I sent you a print of two papers. One of them might be of some interest to you; Z. Rodosavljević, a graduate student of mine, found all switching sets for ^{regular} exceptional ^{connected with line graph} graphs (coming from E_8) without the use of computer. We shall try to produce these graphs starting from the switching sets (again without using computer in the proof, although an interactive programming system "Graph" will be used for getting ideas for the proof).

Kind regards to you and your wife from all of us

Yours sincerely
Draško Petrović

T.Pisanski, B.Mohar, J.Shawe-Taylor

FNT, matematika

Jadranska 19

61111 Ljubljana

Prof. D. Cvetković

Lamartinova 44

11000 Beograd

Dragi profesore Cvetković !

Hvala na pismu od dana 29.3.1982. Hvala Vam i na člancima, knjizi i drugim stvarima koje ste mi poslali. Nažalost ja neću moći doći u Kragujevac zbog više sile - zove me vojska, ali će doći Bojan, Vlado, John i Marko. Oni će se zadržati i u Beogradu na dan ili dva, ali tek posle seminara u Kragujevcu. Vlado i Marko odlaze zatim (7. i 8. juna) na seminar iz primenjene matematike u Novi Sad. Mislim, da bi bilo interesantno, da im prilikom boravka u Beogradu demonstrirate i rad vašeg sistema GRAPH .

Molimo Vas, da pošaljete naše članke u Publ.Inst.Math. ali bez priloženih recenzija, kao što ste na Vi preporučili. Ako članci neće biti interesantni za ovaj časopis, Vi ih možete poslati u bilo koju reviju.

Svi u Ljubljani smo veoma zauzeti radom. Zbog toga je i naš odgovor tako spor. Izgleda, da će John na jesen poći u Kanadu da studira. Bojan je baš u to vreme dobio ćerku . I tako vreme prolazi.

Srdačan pozdrav !

Bojan Mohar Taylor

Bojan Mohar
FNT, Matematika
Jadranska 19
61111 Ljubljana

Ljubljana, 14. 6. 82.

Prof. D. Cvetković
Elektrotehnički fakultet
Bulevar Revolucije 73
p. fax 816
11001 Beograd

Dragi prof. Cvetković!

Hvala Vam na pismu u kojem mi šaljete
dopis profesora Plummera. U vezi sa tim, prof.
Plummeru već sam poslao kopiju svog rada.


Vraćam Vam Plummerovo pismo i još jednom
zahvaljujem!

Srdačan pozdrav,

Bojan Mohar

D.Cvetković

19.6.1982



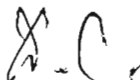
Mrs. Jeanina Vosganian
Calea Victoriei, nr. 105
sc. C, ap.5
Sectorul 1
Bucaresti, Roumanie

Dear Mrs. Vosganian,

Please find enclosed herewith a copy of the paper "Finding tricyclic graphs with maximal number of matchings - another example of computer aided research in graph theory" by I. Gutman and myself which I am sending to you on request of I. Gurman.

With kind regards,

Yours sincerely



D.Cvetković

U Ljubljani, 22. VI. 1982

Poštovani druze profesore!

Opet vam se javljam posle duže pauze u Beogradu misam
bi otkad sam položio ispit iz teorije grafova, a to je
bilo u septembru prošle godine. Tada smo se dogovorili
da ću kao sledeći ispit polagati matematičku
logiku i algebru. Ja sam sada neposredno pripremiti jedan
deo tog ispita - naime od petoro poglavlja obradio sam
„Elemente matematičke logike“ Glavine 3. Prešića i me-
haničko dokazivanje teorema

Ja bih ako mi dozvolite, podelio ceo ispit tako
da bi polagao logiku sa Herbrandovom teoremom i pri-
mipom ~~matematike~~ rezolucije krajem juna ili početkom
jula, a ostalo (dakle algebru) kasnije, u jeseni

U slučaju da se sa mojim predlozom slažete mo-
glih bih da mi javite tačan datum ispita.

Jednako vas pozdravlja

Yanko Terzija

Zavod SRSC za Statistiku

Voždarski put 12

Tel. ⁽⁰⁶¹⁾ 212 322, lokal 62

(od 7⁰⁰ do 8³⁰ ili od 12³⁰ do 15⁰⁰)

61 000 Ljubljana

Beograd 9. juli 1982.

Poštovani druze generale,

Hvala na vašem pismu od 2. jula 1982.

Iz pisma vidim da ste se sasvim bez-
obzorno zabrinuli u vezi sa eventualnim
zaposlayem vašeg sina Miroslava na našem
fakultetu a posebno na našem zavodu (za
matematiku). Zbog toga dozvolite da vam izlo-
žim neke okolnosti u vezi sa tim.

Nekde u vreme kada je naš sin dovršavao
diplomski rad, kolega Zoran Lachović (to je docent
a čovek govornik u pismu) - ja smo u razgovoru
zaključili da bi bilo dobro da Miroslav (kao dobar
student) dođe na naš zavod da bude asistent. To
smo i njemu napomenuli koliko se sećam. Zavod
o tome nikad nije diskutovao, tamo zavode ne
postoji. Lachović i ja nismo o tome promislili mi-
sljete a ranijem da bi i zavod bio celivo to podržao.

Problem je, međutim, u tome što treba da se
raspiše konkursi da bi se to realizovalo. Konkurs
raspisuje Naučno-istorijsko veće fakulteta, Zavodu
za matematiku se takvi konkursi teško odobravaju
jer se smatra da matematičare ima dosta. Međutim
da toga ipak može da dođe iz raznih razloga.

Uključujući jedan asistent odlozi na uspostavljanje
u inostranstvo a jedan drugi treba da bude
unapređen za docenta. To su obilnosti koje
možda ali ne mogu do navedu koje do raspisat
konkurs. Zbog toga je potrebno da Miroslav
lično ili preko vas, bude u kontaktu sa nama.

Budući da nikakve druge obilnosti mi nisu
poznate i ne verujem da postoje, a pogotovo
ne neke ličnosti i njihov uticaji. Međutim
doveli vasinu pismom mi u ovom neprijatnu
situaciju; slobodno mi pišite ili telefonirajte.

Sa poštovanjem.

Dragos' Petrović

Beograd 12.7.82.

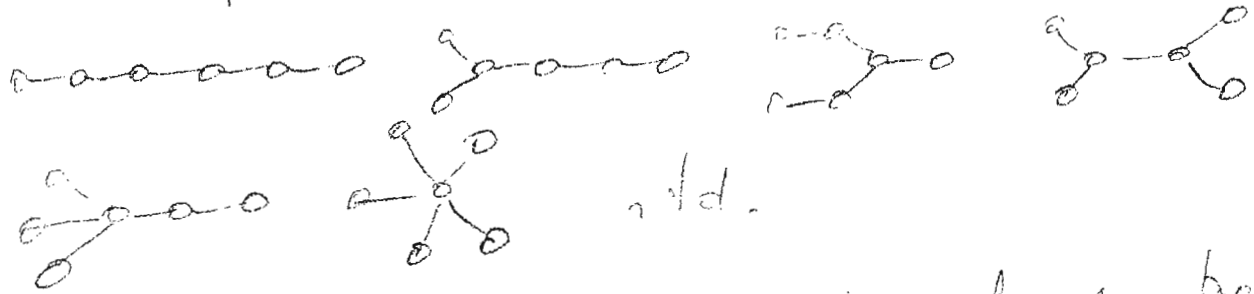
Dragi kolego Petric,

Po dogovoru sačeo sam materijal - a ovaj
budući članak "A table of connected graphs on
6 vertices". Tu su: ključna apstrakta i specijal-
na literatura, kratki uvodna, tablice ispravljenih ned-
nosti i drugih karakteristika, uzduge uvodne
odgovara prvoj tabeli (str 1-4). 7. cete pravo-
te go istom redosledu identifikacionih brojeva
(1-112). Identifikacioni brojevi profana su uzeti
prema redosledu profana u Hararyevej knjizi
(čini mi se sa jednom izmenom). U drugoj
tabeli (str. 5-8) profane se identifikuju po redos-
ledu iz Hararyeve knjige. Inačom konična
delove istom istom tekstu koriste istom od pre-
hodne nprave, po 1. dve i 3. strane od strane
jedne kolone. Grafički i kvadrati triline
se odnose na slopene crtanje i kvadrati na
nici u nać rad.

Do najef slediceg susreta (novegodi u septem-
bru) a moze se javiti, rešite) je bila predložio
do naredite sledice dve strane.

1° Da shvatite (nabaviti) koje ceteri mi h

grafova. Tu dolje u dodatku navedeno ih može biti
 nekoliko. Na primjer, grafovi se mogu tablice
 bi se mogli vrlo jednostavno predstaviti:



Naravno vrlo imo mnogo varijacija pa treba
 odabrati onu koja je najprikladnija za određeni
 slučaj.

2° Da predložite koje podatke bi trebalo dati
 uz svaki graf. To su: red čvorova u abstraktnom
 grafu, koeficijenti kar. polinoma; koeficijenti
 polinoma karakterne (matching polinoma - videti
 u nastavku teksta), u slučaju dolje s ljeva, koeficijenti
 karakterne, koeficijenti kar. polinoma; itd. ali sam rekao
 da ne valja u određivanju jer ih treba
 moći sa svaki graf se b. određuje tako da odredi.
 Dakle predlažu bi trebalo dati u određivanju koje
 se ne mogu tako odrediti ali dolje i one druge
 u dodatku koje me do ne razumijem mnogo prostora
 predlažu i tako neka tabela. Osim toga mogu
 biti da predložite neke tablice u tekstu ili
 u dodatku.

Naravno u ovom slučaju, tablice se mogu i
 reduktivno izvesti tako da sadrži red. koeficijenti
 ali i druge čime određuju

So podrobnom

Z. Koblenc



The University of Michigan

DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING

ANN ARBOR, MICHIGAN 48109

August 13, 1982

(313) 764-6485

Dr. Dragos C. Cvetković
Department of Mathematics
Faculty of Electrical Engineering
University of Beograd
P.O. Box 816
11.001 Beograd, YUGOSLAVIA

Dear Dragos,

Enclosed are two copies of a nice paper on a new direction in extremal graph theory which will become very popular. It is titled "Minimum maximal graphs with forbidden subgraphs" written with Dr. Michael Plantholt. Please consider it for publication in Publ. Inst. Math. (Beograd) (N.S.)

Kindly acknowledge receipt of this paper to the Colorado address enclosed. Best regards to Dr. and Mrs. Simić, to Ivan Gutman, and your family.

Yours cordially,

Frank

Frank Harary

FH/dal
enclosures

cc: M. Plantholt

Beograd 20.8.1982.

Dear Mr. Seidel,

As I promised in my postcard from Bled, I write now to you and for that I have several reasons.

First, Prof. Sachs wanted privately to know whether you would be able to accept an official invitation to visit Jlmenuu next year in June (or a little bit earlier or later). Formally, you would be invited to deliver some lectures on graph theory to students. ^{for a couple of weeks} Four exercises in Jlmenuu would be covered. Perhaps Doob and I would be also there at that time. Please, do not write to Sachs directly about that, just tell me that and I shall forward the information.

Next request is for both you and Bussemaker. In our joint report we determined 187 exceptional graphs, 68 of which are cospectral to a line graph. Now I am trying with a collaborator of mine to find a way to obtain these 68 graphs without computer search. Of course to get that we need some computation. Since our computer is out of order, perhaps Bussemaker can help us with old listings if he has saved them. Namely, ^{for} each of 68 graphs a switching set is given in our report which produces it. However, Bussemaker must have generated all switching sets, many of which give mutually isomorphic graphs

Now, a very useful source of information for me would be a listing of all surtiding sets, with indication which produce isomorphic graphs, and with the corresponding isomorphisms. Of course, the corresponding acknowledgement would be included in the planned paper to emerge of this material. However, I am asking all this only under condition that this material exists and can easily be sent to me. Otherwise, I would not like to get Busse-mercher in troubles to prepare that paper for me.

Because of bad economic situation in Yugoslavia, western books are practically not imported any more (My book on graph spectra has not been at all in Belpode's bookstores although it has in Zagreb and Ljubljana). I would like to have you hint's new book on coding theory and the book number 885 from Lecture Notes in Math. (Proceeding of our Tadjian conference on Graph Theory?). Can I review the second book for your book review journal, and does Prof you hint still have a complimentary copy of his book?

By the way, has my book been reviewed in your journal? If yes, I am sure Haruna would be kind enough to send me a copy.

Best regards to you, your wife, you hint, Busse-mercher and Haruna

Yours sincerely
Dražan Kukur



The University of Michigan

DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING

ANN ARBOR, MICHIGAN 48109

August 24, 1982

(313) 764-6485

Professor Dragos Cvetkovic
Department of Mathematics
Faculty of Electrical Engineering
University of Beograd
P.O. Box 816
11.001 Beograd, YUGOSLAVIA

Dear Dragos,

On 13th August, I submitted a paper to you written with Michael Plantholt. Now it is only a few days later and I must withdraw this paper, as Plantholt had sent it somewhere else.

Did you attend the Third Czechoslovakian Graph Theory Symposium in Prague? I am very sad that I could not be there, but I must get ready for the semester in Colorado.

By the way, I never heard any thing from Michael Doob concerning the 500 dinars. Could you please remind him? Best regards to your family.

Yours sincerely,

Frank Harary

FH/dal

Milam B. Knežević
Č. Minderovića 2/7
11030 Beograd

Dr. J. J. Seidel
Department of Mathematics
University of Technology
Den Dolech 2, P. O. Box 513
Eindhoven, The Netherlands

Poštovani Dr. Seidel,

kao što znate već dosta dugo interesujem se za rastavljanje sistema kombinacija druge i treće klase. Iako bez matematičkog obrazovanja i dovoljnog poznavanja teorije, oslim osnovnih odnosa koji pri rastavljanju moraju biti zadovoljeni, tokom svoga rada uočio sam određene odnose i pravilnosti. Međutim, ove odnose i pravilnosti zbog mnogobrojnosti operacija nisam mogao da proverim na rastavljanjima sistema višeg reda, na primer ($\frac{15}{3}$).

Obraćao sam se izvesnom broju naših matematičara ali sam za svoj rad naišao na interesovanje samo kod pojedinaca, od kojih je jedan Dr. Cvetković. Njemu sam se obraćao u dva maha, prvi put 1975. g. kada je želeo da zainteresuje jednog postdiplomca za problem rastavljanja kojim se bavim. Međutim, dobro je što onda nije uspeo u tome jer tada još nisam znao za izvesne stvari koje sam uočio tek 1977. g. kada sam mu se ponovo obratio. Pogledavši grafički prikaz koji sam mu pokazao Dr. Cvetković je rekao da to ima algoritma, pa je taj materijal dao jednom studentu da ga obradi u svom diplomskom radu. U prilogu Vam dostavljam kopiju naslovne strane ovog diplomskog rada.

Pošto sam se interesovao kako diplomac napreduje u svom radu Dr. Cvetković mi je rekao da nema potrebe da stupim u kontakt sa njim tako da ja diplomca nisam ni video, samo sam dobio od Dr. Cvetkovića jedan primerak njegovog rada. Ja zapravo i ne znam šta je Dr. Cvetković zahtevao od ovog studenta predajući mu moj materijal, ali on ovaj materijal nije obradio u svom diplomskom radu već ga je samo naveo u literaturi i vrlo ukratko pomenio sa mišljenjem da se u njemu izloženi postupak rastavljanja sistema treće klase može obavljati samo ručno. Naravno, student je želeo da što lakše i što brže završi svoj diplomski, a ne da proverava moj postupak ~~na~~ rastavljanja. U ovim okolnostima nisam mogao da insistiram na bilo čemu kod Dr. Cvetkovića, a još manje mimo njega



University of Technology
 Address: Den Dolech 2
 P.O. Box 513
 5600 MB Eindhoven The Netherlands
 Telephone (040) 479111
 Telex 51163

Dr. D.M. Cvetković
 Fac. of Electrical Engineering
 University of Belgrade
 Bulevar Revolucije, 73
 P.O. Box 816
 11001 BELGRADE
 Yugoslavia.

Your reference	Our reference	Date	Direct external dialling
.	JJS/hr	September 1, 1982	472796
Subject	.		

Dear Dragos,

It is nice to hear from you and your family from time to time, and to receive your preprints. I will soon send you some of mine. First I want to know whether you have received Halberstam - Quintas, Distance and path degree sequences for cubic graphs, a report like ours (and indeed inspired on ours). I have two copies, so if you have not received it, then drop me a note and I'll send you his letter + one copy.

Secondly, did you notice the special LAA volume on combinatorics, August 1982? Kumar - Rao - Singhi write about Graphs with eigenvalues at least -2 , and Neumaier about λ_2 of a tree.

I just came back from Praha where I thought I perhaps would see you. There were some interesting lectures, and I met Pisanski from Ljubljana. Some other authors about eigenvalues are D. Pötschke (East-Berlin, very strong) and Zofia Majcher (Opole, Poland).

After having written the above, I receive your letter of August 20. You may communicate to Professor Sachs that in principle I would like to react positively to an invitation to visit Ilmenau. I would also like him to know that in Praha I met some interesting DDR mathematicians such as Dr. Dieter Pötschke who also told me about some ideas of Dr. R. Pöschel. Perhaps it would be worthwhile to combine a visit to Ilmenau with a visit to Berlin.

Your question about switching sets will be forwarded to Bussemaker.

In Praha I noticed also the difficulties with books. Indeed, the books in the west, and in particular those of Dutch publishers, are much too expensive. I noticed a factor 15 difference for the same book by North-Holland in our country and in Czechoslovakia! I can send you Springer Lecture Notes 884 (Proc., Geelong 1980) for free if you want it. I am afraid that nr. 885 has been reviewed already, Van Lint will send you a free copy of his book as soon as he has more copies available and Harma (behind her Van der Meiden, who is responsible for the book reviews of the Dutch Mathematical Society) will notice (by typing this letter) your readiness to act as a reviewer. Your book with Doob and Sachs has not been received for review. Harma will ask the publisher for a review copy.

I do make propaganda from time to time, in particular with chemists.

I wait for your answer. Kind regards (also from Harma),

DEPT. OF MATHEMATICS
 AND COMPUTING SCIENCE

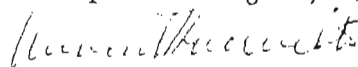
Posle ovog drugog pokušaja da mi pomogne Dr. Cvetković mi je stavio do znanja da mu se više ne obraćam po tom pitanju, a ja nisam ni mislao da će on lično da proverava moje zamisli.

Pre nešto više od godine dana za svoj rad zainteresovao sam i jednog mladog mašinskog inženjera koji zna programiranje. Pre 11 meseci, posle prvih početnih rezultata koji prethode glavnom delu posla pokvario se i još nije opravljen kompjuter na kome je on radio. Ako ovako potraje i ako do leta sledeće godine uspem da kod nas proverim svoje zamisli, zamolio bih Vas za razgovor sa nadam da biste me pažljivo saslušali. Naravno da ću nastojati da ono što mi treba obavim u našoj zemlji, ali ako ne uspem u tome biću prinudjen da se obratim Vama ili nekom drugom. Inače, nije nastavljen raniji kontakt sa Dr. Teirlinck-om koji je pažljivo pročitao moj tekst "Fully ~~partitional~~ symmetrical Partitions of the Systems $\binom{4n}{2}$ " koji Vam je poznat. Na njegovu ponudu da nadje programera koji bi proverio moj metod za dvostruko rastavljanje sistema $\binom{6n+3}{3}$ pod pretpostavkom da podelim autorstvo sa tim čovekom, zamolio sam ga da mi ostavi još malo vremena da takvog čoveka potražim u našoj zemlji.

Ukoliko do početka sledećeg leta još budem imao potrebe za razgovor sa Vama i ukoliko Vi prihvatite ovaj razgovor, doputovao bih u Holadiju sa svojom kćerkom koja dosta dobro govori engleski. Ako želi i ako bude imao vremena razgovoru bi mogao da prisustvuje i Dr. Slobodan Jančić, naš čovek koji radi na univerzitetu u Delftu. Moja kćerka sada uči nemački, pa ako budem mogao nameravam da joj omogućim 2-3 nedelje boravka u Nemačkoj radi vežbanja konverzacije. Želeo bih da putovanje u Holadiju povežem sa njenim boravkom u Nemačkoj, pa Vam zato predlažem da eventualni razgovor sa Vama bude tokom sledećeg leta. U slučaju potrebe dogovorili bismo se o pojedinostima.

Nadam se da ćete u načelu prihvatiti moj predlog a ja ću Dr. Cvetkovića upoznati sa ovim pismom.

Beograd, 09.1982.

S poštovanjem,

Milan B. Knežević

Brook, September 13, 82

Dear Mr. Seidel,

Thank you very much for your kind letter of September 1. It contains a lot of useful information.

I have not seen Halberstam - Quintero report on cubic graphs. So I would appreciate if you would send me that material. I have not heard of a

conference in Geelong 1980 (Lecture Notes 884). If it is a graph theory conference I would like also to have this volume.

I have not been very active in the field of graph spectra in the last two years (because of working on the programming system "Graph") although I had some papers (essentially done before). Also I have not been abroad since my 1981 - USA - Canada - trip. One reason is that I am for the moment a little bit saturated by trips in previous years and, on the other hand, it is nowadays more and more difficult here to get expenses paid for a trip abroad.

With kind regards

Yours sincerely
Dagmar Luthien

Milan B. Knežević
Č. Minderovića 2/7
11030 Beograd

Dr. Dragoš Cvetković
Lamartinova 44
11000 Beograd

Druže Cvetkoviću,

pomenuo sam Vam jednom ranije da sam pre godinu i po dana za problem kojim se bavim zainteresovao jednog mladjeg čoveka koji zna programiranje. Računar kome on ima pristup poodavno je u kvaru, pa već više od godinu dana nije učinjeno ništa od ondašnjih početnih rezultata.

Zbog ovakve situacije pomislio sam da se obratim Dr. Seidelu pod pretpostavkom da za sledećih deset meseci ne bude nikakvog napretka. Želim da Vas upoznam sa svojom namerom, pa Vam zato šaljem nameravano pismo Dr. Seidelu koje nije još ni prevedeno ni poslato. Ako rad na rastavljanu uskoro krene na bolje, lako se može desiti da Dr. Seidelu i ne uputim pomenuto pismo.

Beograd. 15.09.1982. g.

S poštovanjem,
Milan B. Knežević
Milan B. Knežević

19. IX 1982.

Dragi Dragoše

U prilogu je spisak mojih radova. Crvenom bojom su označeni moji matematički radovi, koji su to i po formi i po sadržaju. Zelenom bojom su označeni radovi za koje se ja usudim tvrditi da su u najvećoj meri matematičkog karaktera, iako su, formalno, pisani na "hemijski način". Uostalom, svi moji radovi (osim br. 91) sadrže manje ili više matematičkih rezultata.

Obrati pažnju da nedavno završeni rad sa Mallionom i Essanom nisam označio ni zelenom, a još manje crvenom bojom. Spisak se u ovom trenutku završava s brojem 170.

Srdačni pozdravi

Jvan

3225 Kingman Rd.,
Ames, Iowa 50010

4 Listopada 1982 ✓

Profesor Dragos M. Cvetković
Faculty of Electrical Engineering
University of Belgrade,
Belgrade, Serbia
Yugoslvaia

Dragi kolega Cvetković

(1) Nisam siguran da je ovo gore Vasa adresa. Pred par godina slao sam Vam nesto u Beograd (separati) pa se vratilo. Mozda ce sad biti vise sreće. Za svaki slucaj ja saljem isti material i kolegi Ivanu Gutmanu u Kragujevas.

Neznam dali ste Vi primjetili ali u 5-6 Vasih publikacija koje imam nema nikakve adrese kuda da se pise autoru.

(2) U posebnoj koverti saljem Vam nekoliko novijih reprints koji obzirom na temu: Karakteristicni polinom i njegova konstrukcija - ce Vas mozda zainteresirati.

(3) Posebno bi Vam skrenuo paznju na dva manuskriptu: "On Computing the Characteristic polynomial" koji sam predao u Journal of Computational Chemistry ovih dana i "Characteristic Equations and Graph Isomorphism" Ovaj potonji je^u preliminarnom obliku, nisam ga jos slao u casopis jer hocu da cujem misljenja ljudi kao Vas koji ste u ovom podrucju dali zapazene radove. Kopiju saljen nekolicini kao Schwenk-u, R.J. Wilsonu R.C. Read-u, M.E. Fisher-u i Tarjanu. Ako rad prezivi njihovu kritiku preraditi cu i slati u casopis.

Prvi od ova dva rada je "cist", radi se o opisu algoritma za konstrukciju karakteristicnog polinoma. Pristup je vrlo jednostavan kao sto cete imati priliku provjeriti. U stvari cudo je da to nije niko ranije na taj nacin pristupio. Problem se sveo na rjesavanje sustave homogenih linearnih jednadzbi za koeficiente karakteristicnog polinoma. Konstrukcija jednadzbi se svodi na m^uzjenje vektora i matrica.

Drugi rad bi mogao izazvati cak vece zaprepascenje, jer svodi problem isomorfности grafova na konstrukciju svih karakteristicnih jednadzbi (koje se mogu interpretirati kao "random walks" za pojedine terme).

Umjesto $n!$ kompleksnosti izlazi da imamo polinomni algoritam koji raste ako $\frac{1}{2} n (n+1)$.

Previše jednostavno da si nemogu dozvoliti da o tome pričam dok ne cujem neke reakcije. Pisao sam nekolicini ljudi i toga radi da se "zastitim", da mi se ne dogodi kao s jednim manuskriptom (kojeg ću Vam poslati nadam se prije Božića) o karakterističnom polinomu, koji kad sam dobio natrag od recenzenta ispada da se on hoće pridružiti kao ko-autor! Taj će Vas manuskript također zanimati -- ideja je da se karakteristični polinom izrazi pomoću Cebisevih polinoma a ne kao potencije x^n . Interesantno obzirom da Cebisevi polinomi igraju ulogu karakterističnih polinoma lanaca L_n (ako se x zamjeni s $x/2$) da se dobiju znatno jednostavniji izrazi za nisku familiju strukturno srodnih crteža (grafova).

Javite ste prije Vase primjedbe posebno na manuskripte koji su predani ili će tek biti poslani u tisak. Ako dobijem na vrijeme Vase primjedbe mogu ih uzvati kor prerade rada. Posebno me zanima što ćete reći o manuskriptu "Characteristic Equations and Graph Isomorphism". Dali moj dokaz (u dodatku na koncu rada) se može prihvatiti ili je suviše trivijalan?

Dolazite li ovamo? Ja sam sad formalno član matematičkog odjela sveučilista "Drake" u Des Moines-u. Nisam time postao matematičar, ali sam barem u dobrom društvu! Preko 10 godina je trajala potraga za akademskim mjestom a trebalo mi je skoro 10 godina da shvatim da me kemikari "neće". Konacno sam došao do tog da ni ja njih ne trebam! Naravno ja i dalje imam primarno područje istraživanja u kemijskoj primjeni teorije crteža. Mnogo će još proći vode ispod Savskog mosta dok većina u kemiji uoči svoje nedostatke i zanemarivanje ne-numericke matematike. Kako nisam matematičar a nisam nikad ni bio kemikar, sad se predstavljam kao Matematički kemikar -- dok ide!

Srdacni pozdrav

Vas

Milan Randić

Milan Randić

DRAKE UNIVERSITY

DES MOINES, IOWA 50311

23 Listopada 1982

COLLEGE OF LIBERAL ARTS
MATHEMATICS DEPARTMENT

Profesor D. M. Cvetković,
Faculty of Electrical Engineering
University of Belgrade,
Belgrade, Serbia

Dragi kolega Dragos:

U posebnoj koverti (kao tiskanicu) saljem Vam novu verziju rukopisa "Characteristic Equations and Isomorphism".

U novoj verziji točna razlika između NP i NP-complete zadataka je napravljena (sto je bilo pobrkano u ranijoj verziji). Također, dokaz tvrdnji da je sustav karakterističnih jednažbi jednozanan za strukture je sad sastavni dio rada, pa time potreba za mnogim primjerima otpada.

Priperemam posebni rad u kome ću razmatrati opsirnije isospektralne crteže (grafove). Ako imate neki rad o izospektralnim grafovima (možda i neobjepljene primjere) javite mi da ih uključim u ta nova razmatranja. Imam program (jedan student i jedan nsatvnik su dio grupe) koji daje karakteristicne polinome ili karakteristicne jednažbe i izomorfnost.

Vec sam nekoliko puta naisao na referencu jednog Vaseg rada (mislim da je tiskan u Nizozemskoj u nekom casopisu s jos kojim koautorom). Sad nemogu naci biljesku o kom se radu radi. Ako nemate previse radova tiskanih u Nizozemskoj mozda cete prepozanti o cem se radi i poslati mi otisak. Također bi mi dobro dosli i drugi radovi kojih imate duplikata.

Mnogo pozdrave



Milan Randić



University of Technology
Address: Den Dolech 2
P.O. Box 513
5600 MB Eindhoven The Netherlands
Telephone (040) 47 91 11
Telex 51163

Dr. D.M. Cvetković
Dept. of Electr. Engineering
University of Belgrade
P.O. Box 816
11001 BELGRADE
Yugoslavia.

Your reference	Our reference	Date	Direct external dialling
.	FCB/hr	October 6, 1982	.
Subject			

Dear Mr. Cvetković,

In the first place, thank you very much for your postcard from Bled. Relatives of mine have visited that place with the lake, and told me it is very beautiful. It is already long time ago that I wrote you a letter. From prof. Seidel I received your question about the computer output of the exceptional graphs. I am very sorry that it took so much time before I answered you, but I am rather busy. You would like to get information concerning all switching sets, generating the same graphs. I have looked over the computer output which I still have saved. Now this output does not contain all switching sets. The method used by me, was to determine first the generators of the automorphism group of the starting graph, and then, getting the switching sets, to look which of them were different under the action of the generators. These resulting switching sets became printed out. So, it may be possible, for example, that there are 818 switching sets, and that only 36 of them remain after this reduction. These remaining switching sets I can give you explicitly. In a separate program these resulting switching sets became reduced further by comparing the corresponding switched graphs with each other.

So I could send you a number of results which are only part of what you really asked. But I don't know how useful these results are to you, and it seemed better to me to ask you this first. If you answer me that you can also use these very partial results, then I will send them to you, and I will try to explain as good as possible how this output should be interpreted.

So long you have best wishes from me and my wife. Please give greetings from Joos and me to your wife and to Mbladen.

Yours sincerely,

F.C. Bussemaker.



Dr. D.M. Cvetković
Dept. of Electr. Engineering
University of Belgrade
P.O. Box 816
11001 Belgrade
Yugoslavia.

Den Dolech 2
Postbus 513
5600 MB Eindhoven
Telefoon (040) 47 91 11
Telex 51163

Uw kenmerk

Ons kenmerk

Datum

.

hr

October 13, 1982

Doorkiesnummer

.

Onderwerp

.

Dear Dr. Cvetković,

Are you willing to review the following book for the
"Communications of the Dutch Math. Society":
- Graph Theory (Proc. Conference, Cambridge) ed.
B. Bollobás, North-Holland, 1982, US\$ 46,50, 201 pages,
(Annals of Discrete Mathematics, 13).

Hoping to hear from you soon,

regards,

Harma.

Berograd 30. 10. 1989

Dragi kolego Petre!

Hoće na pismu od 11. 10. 11. moći
rečeno ste i Vi sigurno dobili moje pismo.

Stvari dobro napreduju i u ovom trenutku
možemo saopštiti, ali bez kompjutera, i to boji
cijente kar. polinoma od J. van "Characteristic
polynomials of 7-weak groups" od C. Kinga. On
me sve pofere sa Teoremom i izračunavanjem i refer-
encama. Naši profori su uključeni u taj tabeli ali
mi se odati jedna kolona čvor, Treće su o
to ili moćete što nije suviše teško.

Glavni sopstveni vrednosti koje podučiti. E
teje tako tako da se odrediti glavne sopstvene
rednosti. Vi znate formulu za line. gen. koef. funkcije

$$H_G(t) = \frac{1}{t} \left[(-1)^n \frac{P_G^*(-\frac{1+t}{t})}{P_G(\frac{1}{t})} - 1 \right].$$

Dalje je

$$1 + \frac{1}{n} H_G\left(\frac{1}{n}\right) = 1 + \sum_{i=1}^n \frac{C_i}{n - \lambda_i} = (-1)^n \frac{P_G^*(-1-n)}{P_G(n)},$$

gde je C_i iz formule $N_n = \sum_{i=1}^n C_i \lambda_i^k$. Dakle, polovi
funkcije $\frac{P_G^*(-1-n)}{P_G(n)}$ su glavne sopstvene vrednosti. Da

se odrediti glavne sopstvene vrednosti za grupu G

reka useti oportuno vrednosti konjugirane
i videti lži se for bar skladu u razlozku

$$\frac{P_a(-1-u)}{P_a(u)}, \text{ ki ste sparili profove i yihove.}$$

konjugirane slo su slo konjugirane, A bo
konjugirane nije povesu yepu spol bo
uvrsto odrediti me osu su tablic spelter
profove sa do 5 konjugirane daju nam valje
i milogu (u knjizi "Spelter i yepu").

Brojeve konjugirane — konjugirane moze
kako da odrediti duino na stabla, unice
lice i biciklicke profove. Porboje kolo
moze.

Za matking polinomial konjugirane
Gutruena, kod siba profova odlicio bil se za planar
varijante. To pitaje daju po planar na troji pre beshi.
Konjugirane ki god na rade

Se predvoru

PS. Šaljem vam kopiju dopisa
matematickom institutu, čuvajte
zainteresovane o tome.

D. Gaborić

PS. Molio bih da javite koje

bi name Vama i drugima ko-

legama in Novoy Gada odgovore -

golo za seminar uz knjige profova (u Beogradu).

Da li bi prebali od 4-6 pojedine odgovarati? Nave-
dite mi adrese i imena ako su imate. (Prethodno sam

Comment on "Characteristic Equations and Graph Isomorphism" by Milan Randić

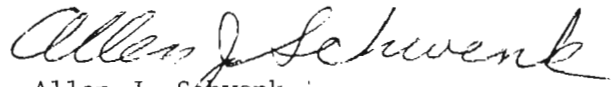
The proposition on page 14 of the revised manuscript is false. The cospectral pair of graphs in Figure 1 in my article "Spectral Reconstruction Problems", Topics in Graph Theory, (F. Harary, ed.) Ann. N.Y. Acad. Sci, 328 (1979), 183-189 comprise a counterexample. Both graphs produce the same collection of $\frac{1}{2}(16)(17)=136$ equations, namely:

$$12+6a_1+a_3=0 \quad 16 \text{ times (once for each vertex)}$$

$$16+2a_1+a_2=0 \quad 48 \text{ times (once for each adjacent pair)}$$

$$12+2a_1 = 0 \quad 72 \text{ times (once for each nonadjacent pair)}$$

In fact, any pair of strongly regular cospectral graphs will give identical systems.


Allen J. Schwenk

Dr. Allen J. Schwenk
Department of Mathematics
U. S. Naval Academy
Annapolis, MD 21402

VANDERBILT UNIVERSITY



NASHVILLE, TENNESSEE 37235

TELEPHONE (615) 322-7311

Computer Science Department • Box 1679, Station B • Direct phone 322-2796

Dear Dragos,

Thanks for the letter. I would be happy to try to arrange for you to come to Vanderbilt except that I will be leaving here soon. About June I am leaving to take a position at the Australian National University in Canberra. I expect it will become permanent - in any case I won't be returning to Vanderbilt. My future address will be

Computer Science Dept.
Australian National University
Canberra, A.C.T.
Australia.

I would be nice if you could visit Australia some time, but of course it's much too early to know if a temporary position would be possible. A potential problem would be that I will be in Computer Science, whereas you are mostly qualified to teach mathematics courses.

Best wishes to you & your family.

Brendan

NNRO "SPORTSKA TRIBINA"

Ul. Radićeva 20/1
41000 ZAGREB

Poštovani drugovi!

Video sam katalog Vaših izdanja pa sam pomislio da biste mogli biti zainteresovani za sledeće.

1975. godine izašla je moja knjiga "Zanimljiva matematika" "Preferans" u izdanju Sportske knjige, Beograd. Knjiga ima 120 strana manjeg formata. Jedna trećina knjige je nematematičkog karaktera (pravilo igre, primeri, principi i dr.). Ostatak teksta je matematička obrada igre uz pomoć kombinatorске i računa verovatnoće ali na elementarnom (srednje školskom) nivou. Rezultati matematičke obrade su praktični saveti za igru.

Knjiga je rasprodata za oko 4 godine u tiražu od 3000 primeraka. Pošto sa raznih strana dobijam pitanje o novom izdanju a pošto Sportska knjiga nije zainteresovana za drugo izdanje, slobodan sam predložiti Vam da knjiga izadje u Vašem izdanju.

Knjiga bi se mogla presnimati ofset tehnikom uz ispravku primećenih grešaka a ako postoji mogućnost ponovnog slaganja teksta ja bih mogao izvršiti razne dopune.

S pozdravom!

Prof. Dr Dragoš Cvetković

Ashraf Zeid
Mechanical Engineering Department
Michigan State University
East Lansing, MI 48824 ✓

Pr. Dragos Cvetkovic
Elektrotehn. Fak.
Beograd, Yugoslavia

Dear Pr. Cvetkovic:

Your book on Spectra of Graphs was of immense help to me in formulating my doctoral dissertation in Estimating the Eigenvalue for a Class of Dynamic Systems.

With the class of dynamic system I studied is associated a skew symmetric adjacency matrix which leads to a pure imaginary spectra. I enclose a paper containing some of the results I obtained. I basically used techniques of spectral analysis. It seems that the bounds on obtained for this spectra could be used as bounds on the imaginary part of the spectrum of the generalized S-graph.

Should you be interested in this work, I would appreciate very much any comments, suggestions and critique.

Looking forward to hearing from you.

Sincerely,


Ashraf Zeid

Enc

Dear Frank,

Thank you for your letter with a paper for Publ. Inst. Math. I forwarded the paper to editors of that journal. They probably will officially inform you about that. I shall inform you if something new happens regarding the paper.

Kind regards also from my wife.

Yours sincerely

Steph^v

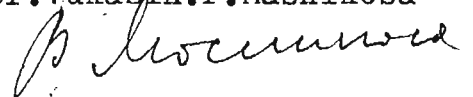
Prof.Dr. CVETKOVIĆ DRAGOŠ
11 000 Beograd
Elektrofakultet-Kat.Matematike
Bulevar Revolucije 73

Čejenj i profesore,

Šaljem vam ovu obavest o predavanjima u okviru sekcije za veštačku inteligenciju SMEITSA za mesec mart.Nadam se da će vas zainteresovati.

Srdačan pozdrav

Dr.Vukašin.P.Masnikosa



INSTITUT "RUĐER BOŠKOVIĆ"

s ograničenom solidarnom odgovornošću OOUR-a
41001 Zagreb, Bijenička 54

OOUR -

Dr. Dragoš Cvetković
Lamartinova 44
11000 BEOGRAD



Naš znak:

Vaš znak:

Zagreb, 12. veljače 1982.

Predmet:

Dragi Dr. Cvetković,

Poslije duljeg vremena opet Vam se javljam, ali ovaj puta s jednom molbom. Naime, u Zagrebu nikako da dodjem do Vaše knjige: "Kombinatorna teorija matrica" (izdanje: Naučna knjiga, Beograd, 1980). Kod nas na Institutu posjeduje ju jedino Grupa za matematičko modeliranje, ali ju ne posudjuju. Da li postoji mogućnost da ju nabavim prijeko Vas?

Ovo je dobra prilika da Vam prikažem nekoliko naših novijih rezultata. Tako npr. dobili smo novi algoritam za kompjutorsko prebrojavanje i prikazivanje heksagonalnih životinja odnosno striktno planarnih benzenoidnih struktura. Upravo spremamo rad o tom rezultatu. Mislim da je interesantan rezultat koji smo dobili za prebrojavanje 1-faktora (Kekuleovih struktura) heksagonalnih mreža. Heksagonalnu mrežu smo preveli u trigonalnu, a trigonalnu mrežu smo prikazali u slijedećem koraku s binarnim stablom s korijenom. Broj staza po binarnom stablu odgovara broju 1-faktora heksagonalne mreže. Taj članak se nalazi u tisku u Computers & Chemistry. Izašao nam je članak (s I. Gutmanom) o permanentnom polinomu u Croat. Chem. Acti. Još nismo dobili posebne otiske za taj članak, pa će Vam biti poslani kasnije.

Dovršio sam takodjer i knjižicu "Chemical Graph Theory" za izdavača Chemical Rubber Company, Boca Raton, SAD. Knjiga je u tisku, ali izdavač traži da dodam još jedno poglavlje, zadnje, o perspektivama kemijske teorije grafova. Taj mi zahtjev zadaje dosta teškoća, jer u zadnje vrijeme upravo vodim borbu (slično kao i Profesor Milan Randić u SAD) o priznavanju kemijske teorije grafova kao legitimne grane teorijske kemije. Glavni protivnici su naravno kvantni kemičari.

U očekivanju vijesti o Vašoj knjizi,

Srdačni pozdravi,

Nenad Trinajstić
Nenad Trinajstić

4.11.1982

F.C. Bussemaker
University of Technology
Department of Mathematics
POB 513
5600 MB Eindhoven
The Netherlands

Dear Mr. Bussemaker,

Thank you very much for your letter of October 6 in which you explained what you have about switching sets. Now I shall explain exactly what I need.

Mr. Z. Radosavljević and I are preparing a paper under the title "A ^{true} consideration of the 68 connected, regular graphs, non-isomorphic but co-spectral to some line graphs". In this paper we want to give a table (an incomplete version of ~~it~~ enclosed herewith) ^{in which} we want to show how different switching sets of line graphs $L(H)$ of regular graphs H on 8 vertices give rise to E_8 -graphs. Of course, switching sets equivalent under an automorphism group of H should be given only by one representative. In a previous paper (again enclosed herewith) Radosavljević determined (without computer) all inequivalent switching sets. I shall describe now our table.

Each graph H has a name $S_1, S_2, \dots, S_1, S_2, \dots$ and a picture (see Radosavljević's paper; the same occurs in our old report). Each H has an edge labelling (Handwritten in the paper). For each H inequivalent switching sets are given in the paper as pictures of regular factors.

For each H we have a table with several rows and columns. First column gives inequivalent switching sets as sets of edge labels of regular factors. Second column gives which of 187 E_8 -graphs is obtained by this switching set (numbers are referring to our old report), or a dash if again a line graph is obtained. Next three columns should convince the reader that it is really so. Third column gives four edges which

2.

after switching produce a $K_{1,3}$ which is forbidden for line graphs. Column four gives the number of *cocliques* of order 4 by which we can distinguish between non-isomorphic graphs in many cases. Fourth column gives an isomorphism (as a permutation in the cyclic form) between original line graph and the switched graph if again a line graph occur, or an isomorphism between E_8 -graphs obtained by inequivalent switchings referring to the first such graph as it occurs in the table. Perhaps new columns should be added to distinguish between non-isomorphism graphs.

Our question is now: Can you complete this table or help in completion?

If you can help essentially we would invite you to join us as a co-author. In any case we would make an acknowledgement to you in the paper.

With the hope that this letter is sufficiently clear (otherwise, please ask again to clarify the things) kind regards to you and your family as well to Prof. Seidel and Pr van Lint.

Yours sincerely

D. C.

D. Cvetković

INSTITUT FÜR OKONOMETRIE UND OPERATIONS RESEARCH
RHEINISCHE FRIEDRICH - WILHELMS - UNIVERSITÄT BONN

Prof. D. Cveticović
Faculty of Electrical Eng.
University of Belgrade
Bulevar Revolucije, 73
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11001 BELGRADE - YUGOSLAVIA

ABTEILUNG OPERATIONS RESEARCH
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D-5300 BONN 1
TELEFON (0228) 739285/86
TELEX 886657 unibo d


Bonn, Nov. 8, 82

Dear Prof. Cveticović:

I would be very grateful for a copy of your paper(s):
on line graphs (and generalizations) :
published in C.R. Math. Rep. Acad. Sci. Canada - Vol 11 (1980), No. 3, 147-150
J. Graph Theory 5 (1981), 385-399
and on graph equations $L^n(G) = +1$, $M^n(G) = +1$, ...
which involve line graphs, middle and total
graphs.

Thank you very much.

Yours sincerely.


Dr. Maciej M. Sysło

University of Technology
Address: Den Dolech 2
P.O. Box 513
5600 MB Eindhoven The Netherlands
Telephone (040) 479111
Telex 51163

Your reference

Our reference

Date

Direct external dialling

Subject

November 11, 1982

Dear Mr. Cvetković,

Thank you very much for your kind letter.

I gave your messages to Bussemaker, Seidel and
(by letter) to Van Hint.

I'm doing very well, still working with pleasure,
so, I've nothing to complain about.

Enclosed you will find the Graph Theory-book and
another review-request. If you like to do this book also,
I'll send you the book as soon as I've heard from
you.

Kind regards, also from Prof. Seidel,

Hanna.

University of Technology
Address: Den Dolech 2
P.O. Box 513
5600 MB Eindhoven The Netherlands
Telephone (040) 479111
Telex 51163

Dr. D.M. Cvetković
Faculty of Electr. Engineering
University of Beograd
P.O. Box 816
11001 BEOGRAD
Yugoslavia.

Your reference	Our reference	Date	Direct external dialling
.	FCB/hr	November 18, 1982.	
Subject			

Dear Mr. Cvetković,

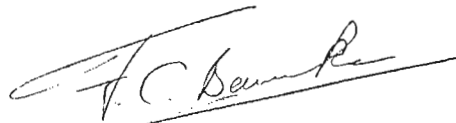
Thank you very much for your letter of November 4.

You asked me to help with the completion of your table. I will try to do this, but because I am also busy with other things, I don't know how long it will take before I can send you results.

Professor Seidel agreed that I should spend some time to this problem.

With kind regards to you and your wife, also from Professor Seidel,

yours sincerely,



F.C. Bussemaker.

DRAKE UNIVERSITY

DES MOINES, IOWA 50311

COLLEGE OF LIBERAL ARTS
MATHEMATICS DEPARTMENT

November 21, 1982

Dear Colleague:

You are one of selected few whom I may have unintentionally misinformed when sending the manuscript on characteristic equations and graph isomorphism.

As you can see from enclosed correspondence with A.J. Schwenk, there are graphs for which collection of characteristic equations are same.

The "proof" of the conjecture on uniqueness is therefore deficient. It appears that I overlooked (took it for granted) that ~~one~~ same labels have been introduced in G and G' that they are compatible (i.e., that if labels a and b are adjacent in G they ought to be adjacent in G').

The comment by A. J. Schwenk calls for further examination. It does not mean immediately that the approach is futile, since information on graphs G_1 and G_2 that they have some symmetry has not been used. If one uses such information one can factor matrices and derive equations for factors of the polynomial, each having its characteristic equations.

Besides an obvious "lesson" (known as one of Parkinson's laws) that if everything looks fine you must have overlooked something, there is a more serious lesson, at least as far as I can see, that in so hard problems, as is graph isomorphism, you cannot afford the luxury of not using all information available. Here the characteristic equations tell you that vertices are equivalent, hence next step ought to be (just as in the effort to construct the characteristic polynomial) to use symmetry adapted combinations and factor adjacency matrix accordingly.

One can see that this modification is essential by considering for the graphs given by Schwenk to construct the characteristic polynomial using the characteristic equations. There are too few because of high symmetry! (In forthcoming paper -- under preparation this is considered i.e. construction of the characteristic polynomial in case of symmetry of a graph). Upon completing study of graphs with symmetry I will come back to see if deficiency pointed to by Schwenk is due to neglect of symmetry in G and G' (in which case there is remedy) or if they are beyond repair!

Sincerely yours

Milan Randić

Milan Randić

3.12.1982

Prof. J.J. Seidel
University of Technology
Department of Mathematics
POB 513
5600 MB Mindhoven
The Netherlands

Dear Mr. Seidel,

Enclosed is a draft of the planned paper "A construction of the 68 connected, regular graphs, non-isomorphic but cospectral to line graphs". You might be surprised to see your name among the authors of the paper. Since you certainly will advise Bussemaker in his computations, I thought you should be an author. Of course, if you do not agree with this, just delete your name and forward the manuscript to Bussemaker for his information.

In fact, we have quite comfortable facilities to do the job with our system "Graph". For example, the graph on the picture can be drawn by a light pen, the numbers indicating the order in which the edges are drawn. Suppose we have given the name H to this graph:

By the command:

FORM G LINE GRAPH OF H.

we immediately have its line graph.

Switching sets are defined by following commands

SET F1=9 10 11 12.

SET F2 = 1 4 9 12 .

etc. Following commands do not require any comment:

FORM G1 BY SWITCHING G W,R,T,F4.

FORM G2 BY SWITCHING G W,R,T, F2.

CHECK WHETHER G AND G1 ARE ISOMORPHIC.

CHECK WHETHER G1 AND G2 ARE ISOMORPHIC.

etc. (Note that "Graph" is not designed just for this problem, it is a general purpose system). Many other commands exist, let me just mention the following few:

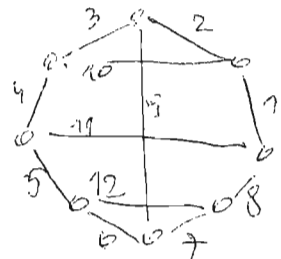
CALCULATE EIGENVALUES OF G.

CALCULATE SEIDEL EIGENVALUES OF G.

LIST CLIQUES OF G.

Unfortunately, our computer is out of order and the memory is small. A new big computer should be installed soon but nobody knows when effectively this will happen.

I have been invited by TH Ilmenau for May-June 1983 and shall probably be there from May 15 to June 15. Is there any arrangement for your visit to Ilmenau so far?



2,

On April 15 and 16 next year the North Yugoslav Seminar on Graph Theory will be held in Novi Sad. There are now about 20 mathematicians in Yugoslavia dealing with graph theory (about 10 in Belgrade or around, and about 10 in Ljubljana). On this occasion we would try, for the first time, to publish a proceeding. In order to enhance the quality of the book a couple of us have decided to ask, for the moment quite privately, some mathematicians from abroad to contribute to this proceeding by own research or expository articles on graph theory. Unfortunately, we do not have funds to invite all this people to take part personally. On the other hand, we could try to get interested some international publishers for these proceedings (North-Holland, Springer Verlage etc). So, I would ask you to let me know whether you would be willing to prepare a paper for us at least in the principle; a positive answer does not mean any obligation for either side. In a month or two you would be informed about definitive arrangements.

Kind regards also to Bussemaker.

Yours sincerely



D. Cvetković

Dori dad, 21. 12. 82.

11

Doštovaní profesore Čučkovič,

Šeljem Vám slině profora určené přemě
momentůma (u nerosticím forstnu) koje sam skupao
da napravim, da biste ih mogli pogledati do našej
slebečej vřtenje. Poredak itpleta prirodniijí nego
sob se rodi direktno po spektrime. Tono u npr.
vrlo prirodno poredani profori se 6 ~~grama~~ ^{grama} bor se
npr. čini da prof 79 nije na najprirodniijem mestu.
(Bilo bi logičniije da je ita profa 82; odnomo 81 i
82 izpred njega). Tma još dosta logičniijih profaciija,
npr. profori 84, 85 i 87 u zada jedan ita drugog kao i
profori 86 i 88.

Ukoliko Vám se ovaj poredak nřidi estojě problem
preuređenja tablice. Gde ubaciti momente?

Postoji mogućnost da sam u računu nepde i pog-
rešio, no u nekom slučaju poredak koji Vám šaljem je
bor približau. Ukoliko biste se odlučili za njega ovo je
lono proveriti (za sam računao samo neophodne momente.)

Sa poštovanou

Milena Petrić

Novi Sad, 9.01.83.

Poštovani profesore Cvetković,

Šaljem Vam prvu stranicu Tabele 2 kao i odgovor
jedatava u njoj. Molimo imate nemu otbiljniju primedbu
na odgovor dobro bi bilo da mi javite pošto ću ja naste-
riti da nacem ovono.

Što se tiče glavnog dela spektra u našem radu:
"The main part of the spectrum, divisor and matching of
graphs", Publ. Inst. Math. (Bp.) 23(37)1978, 31-38, je rečeno da
nemiregularni i bikromatni graf ima tačno dve glavne rep-
ritivne vrednosti u glavnom delu spektra i postavljen je pi-
tanje ima li još grafova sa dve glavne repit. vr. Iz naše ta-
bele se vidi da ih ima. Imamo ih ukupno 18 od kojih su
samo dva nemiregularni i bikromatni (73(68) i 107(107)). Svi
ostali (2, 4, 6, 13, 17, 28(22), 26(27), 30(31), 38(37), 42, 71(70), 74, 85(84), 92, 96,
109) su birstepeni (imaju dve vrednosti stepena čvorova) ali sa
različitim kromatnim brojem (od 2 do 5). Do, postoje birstepeni
(i bikromatni - 112.) grafovi sa više od 2 glavne repitivne
vrednosti (npr. 18, 14, ..., 112.). Ne znam šta odgovorite da
se pomeno da da postoje ne nemiregularni bikromatni grafovi
sa dve glavne repitivne vrednosti.

Sa pozdravom

M. Petrić

The University of Sydney

Dept. of Pure Mathematics

SYDNEY, 2006
NEW SOUTH WALES
AUSTRALIA

IN REPLY PLEASE QUOTE

17/1/83. ✓

Dear Professor Cvetkovic

I would very much appreciate a reprint of your article entitled

Graph equations

which appeared in several journals

Yours sincerely,

Joseph Hammett
(HAMMER)

AEROGramME

BY AIR MAIL : PAR AVION



Professor D. M. Cvetkovic

Electrotehn. Fak.
 University of Beograd
 BEOGRAD
 Yugoslavia.

Country of Destination

Approved by the Australia Post for acceptance as Aerogramme No. 41

Second Fold Here

From J. HAMMER
 THE UNIVERSITY OF SYDNEY,
 NEW SOUTH WALES,
 AUSTRALIA, 2006

Fold flaps before moistening gum. For maximum adhesion, press down for a few seconds. If anything is enclosed or any tape or sticker is used, it must be removed before use for Air Mail Letters.

Here First



SIMON FRASER UNIVERSITY, BURNABY, B.C., CANADA V5A 1S6
DEPARTMENT OF MATHEMATICS, 291-3331, 291-3332

19 January 1983

Dear Dr. Cvethković

C.D. Godsil and I are editing a volume entitled "Cycles in Graphs" in the Annals of Discrete Mathematics series published by North-Holland. As the title suggests, we are interested in any paper that deals with cycles in graphs or circuits in digraphs. We are also interested in a variety of viewpoints, for example, existence questions, enumeration questions, or algorithmic questions.

This past summer we held a small research workshop for seven weeks on the topic of cycles in graphs. The idea for the above volume arises from the participants of this workshop. We have decided to also solicit papers from people who did not attend. As an active researcher with some interest in the above topic, would you consider submitting a paper for possible inclusion in the volume? We hope that you will seriously think about it.

We also wish to have an extensive list of unsolved problems dealing with cycles. Even if you do not intend to submit a paper, we would appreciate receiving some unsolved problems.

The papers will be refereed with high standards in mind. The deadline for submission of papers is February 28, 1983 and for unsolved problems the deadline is the same.

The deadline has been extended
by several months.

Sincerely yours,

Brian Alspach

BA/jf



Novi Sad, 31. 01. 83.

Poštovani profesore Cvetkoviću,

Šaljem Vam po 4 kopije Table 1 i Table 2 koje još treba numerisati prema broju stranice koje radite med. Nadam se da ćete biti zadovoljni rezultatima. Ja sam samo ne menjao mesta obruno i luku u fotoženi fotožoj zbog dužine rešenja.

Podatke koje smo dobili kompjuterom samo premo brojimo. Da menjamo mesta samo popravljam 3. decimalu neprekidnih vrednosti (množenje sa jedini) prema dogovoru da 12. decimala bude 3. decimala bez završavajuća. Pored toga bile su dve prečke u momentima (koje sam Vam poslao). Jedna je prof 628 prebačilo na mesto 22, a 622-627 pomerilo za jedno mesto više, dok druga nije nikada ne potrebna. Kod ove grupe je bio nekočan mehanizam 96 narod. polinoma (669).

Prof 615 nije met dobro u računar (poslednja prava) i mojom pretkom 3 preta nim mesta (ja ih nisam mogao u lirkuzime). To su 639, 665 i njegov komplement 688. Šaljem Vam podatke za njih, ja molim Vam bude zgodno, da ih mesete na disk i intervirate (oznake u stare).

G15: 12, 13, 14, 15, 16, 23, 25, 26, 34, 35, 46 (6, 11)

G39: 12, 13, 14, 15, 16, 23, 24, 25, 36 (6, 9)

G65: 12, 14, 15, 23, 24, 35, 36, 45 (6, 8)

G88: 12, 14, 15, 23, 26, 34, 35 (6, 7).

Je nam Vaše zaboravio reći da nam dobio (preko
Škole) odgovor u veći ovaj članak: Giudici Reinoldo E.,
Viure-Romau M., A table of chromatic polynomials,
J. Combinatorial Inform. and Syst. Sci., 5(1980), no. 4,
323-350. Jaki je bio nasučen preko Jugoslovenskog centra
za naučnu i tehničku dokumentaciju i oni su odgovori-
li da su preporučili sve brojeve iz 1980. godine i
mi u jednom mesu mi autora mi preporučili članke.
Proverio sam podatke u naslovnicama i naslovima koji
ste mi poslali i video da se radi o istom. Da li
je moguće preko referativnog formulara (na naslovu
mesa, ove broj)?

Sa pozdravom

Juliano Petrić

16.2.1983

Prof. J.J. Seidel
Department of Mathematics
Technological University
POB 513
Eindhoven
The Netherlands

Dear Mr. Seidel,

Thank you very much for the joint letter of yours and of Bussemaker. Mr. Bussemaker did really a good job so that we practically have all we need for our article. Of course, an acknowledgement will be given to Bussemaker.

Michael Doob told me that you were interested in graphs with subdominant eigenvalue bounded by 1. Since I was also interested in this problem I would like to get your paper about it. I am enclosing a paper of mine on this theme which is just going to be published. Two other papers are enclosed which might be of some interest to you. I completed also a table of six point graphs with several data about them.

I was very sorry to hear that your mother died. I really sympathize with you.

Kind regards to you and to Bussemaker.

Yours sincerely

D.Cvetković "



The Ohio State University

Department of Mathematics

231 West 18th Avenue
Columbus, Ohio 43210

February 18, 1983

Phone 614 422-4975



Dear Colleague: *Professor Cvethovic:*

I enclose the preliminary edition of a "Bibliography of Signed Graphs," to be published in the Proceedings of the First Colorado Symposium on Graph Theory (held last October) along with a survey article. I want to make the bibliography complete for the mathematics of signed graphs, including natural generalizations and disguised appearances (see the Preface), and to indicate the contents of each item (see the Subject Codes list). I request your help in the following ways.

(1) Do you know of any other items that belong in the bibliography? Or of persons working in this area?

(2) Please examine the listings for your own works. Are the data correct and complete? Do you think the subject coding is correct? Have you other work in progress, or did I miss any items? (Please send reprints or preprints if possible; also of any items already listed of which I do not have copies--~~see the bibliography for my comments.~~)

↳ "The main part of the spectrum"

Thank you

If you can help, please respond by letter, or by returning the bibliography with your comments. I have a deadline of March 15, 1983, so please answer soon if you can; but I also welcome later responses (which I may still be able to use in this edition).

Many thanks in advance for your cooperation.

Sincerely,

Thomas Zaslavsky

Thomas Zaslavsky

TZ/dc

Enclosure

Please show this to other possibly interested persons. I am striving to achieve completeness. I regard much work on Seidel switching as very close to signed graphs.

Thank you

23.2.1983

Prof. B.D. McKay,
Department of Computer Science
Vanderbilt University
Nashville, Tennessee 37235
USA

Dear Brendan,

I am thinking about possibilities to spend a year in Scientific research somewhere abroad. A good alternative to me would be to work with you since we have quite close areas of interest (graph spectra and the use of computers in scientific research). Also I have some common subjects with Prof. Hemminger (line graphs and graph equations). Can you please think over, perhaps also in contact with Prof. Hemminger, whether there is a possibility that I get a visiting professor position (or a similar position) for one year (or half-a year) at your University.

I could deliver an advanced course from the area of graph spectra or graph equations and an elementary (but with a quite original graph theoretic approach) course in matrix theory. During my stay our system "Graph" could be installed, further developed and used in research at your University.

With kind regards,

Yours sincerely

D.Cvetković

Beograd 15.3.1983.

Poštovani kolega Martić,

Kolega R. Janić mi je doo Vaše pismo sa nizom zapažanja o mojoj knjizi "Diskretne matematičke strukture". Kako je u međuvremenu došlo do drugog izdavanja knjige, ja sam iskoristio uz Vaših primedbi za poboljšanje teksta. Nažalost, zahtevi i odgovori su mi specifični da otklonim neke nedostatke koji zahtevaju veću promenu teksta, odnosno unetanje novog teksta.

Zahvaljujem Vam na trudu običavne knjige a to sam učinio i u predgovoru drugom izdavanju. U završetak šaljem Vam primerak novog izdavanja.

Srdoljivi pozdrav

Dragoš Kottarić

Сарајево, 17. 3. 1983.

Гар когера Уверковичу,

захвалујем Вам за књигу „Дис-
кретне математичке структуре“. Много
сам се надуолао.

Хвала Вам још једном

Ђорђе Милић

Professor. D. Cvetković
Faculty of electrical engineering
University of Belgrade,
POB 816, 11001 Beograd
Yugoslavia

Dr. A. Shalabi
Chem. Dept.
Fac. Sciences
Benha - Egypt

د. أحمد شلابي
قسم الكيمياء - علوم بنها
بنها

13th April

Dear Prof. Cvetković

My regards from Benha.

I have arrived here at Tuesday night quite tired. Thank you for welcoming my visits to Beograd and for organising my lecture.

Please convey my regards to Zoran. I need here some time to get recovered. Please keep up to date correspondence to the above address and using the enclosed labels. I hope you can finish the work on the computer system graph ~~to~~ successfully in order to be able to hear from you.

After every good wish, I will be looking forward to receive a letter from you.

Thank you

Yours Sincerely
Shalabi

Dear Mr. Seidel,

Please find enclosed the final version of the paper on exceptional graphs.

Still a little question related to this paper remains open. On p. 2 we refer to [5] and in the list of references [5] is not completed. It seems that I lost the corresponding paper of yours (perhaps joint with Bursemaker); I simply do not have it in my files and I know that such a paper exists. Would you, please, send me once this paper or at least its bibliographical description. (As you see from the context that is the paper where all switching sets of $L(K_8)$ which produce exceptional graphs are studied).

A reprint of the paper on graphs with $\lambda_2 \leq 1$ is also enclosed.

With kind regards to you and to Bursemaker

Yours sincerely
Dimitris' Beftoric'

27.4.1983.

Beograd 13.5.1983.

Dear Vera,

Professor Sachs invited me to visit Ilmenau for a few weeks this summer. I decided to take also my wife and my son with me. We all together agreed that it would be nice to visit Prague on the way to Germany. That would be also an occasion to meet you again, as well as other colleagues.

We should enter DDR on June 27 (Monday). Perhaps we would come to Prague on Friday, June 24. I would ask you most kindly

to book a room for 3 persons in an average hotel for June 24, 25 and 26. Are dinars accepted in your banks and to which rate? Can you tell me official rates for marks and dollars and, of course, prices in the hotel?

I would like to meet Mr. Sedláček and other graph theory people for a while in Prague. If it is convenient I can deliver a lecture on Friday late in the evening or on Monday early in the morning. I propose to choose between the following two themes: "Programming system 'Graph' - an expert system for graph theory" and "Regular graphs cospectral but not isomorphic to line graphs".

I am looking forward to hear news from you
and to meet you soon

Kind regards from me and also from
my wife.

Yours sincerely
Dragos' Bekovic'

Address:

11000 Beograd,
Lamartinova 44

is official address on
the envelope

V. Trnková, MFF KU, Sokolovské 83
18600 Praha 8



MATEMATICKÝ ÚSTAV UNIVERZITY KARLOVY
PŘI MATEMATICKO-FYZIKÁLNÍ FAKULTĚ UK

186 00 PRAHA 8, Sokolovská 83

Telefon 23 16 034

Č. j.

V Praze dne

May, 24, 1983

Dear Dragos,

That is nice that you are going to visit Prague on your way to Ilmenau. I already rang to Prof. Fiedler, he is going to arrange your lecture on Monday 27 in the morning. He selected the theme "Regular graphs cospectral but not isomorphic to line graphs" and he will organize your meeting with the graph theory people.

I can also announce you that our bank accepts dinars and has the following rates:

100 dinars is 12 Kčs (or 7 so called Tuzex crowns)

1 dollar " 10,50 Kčs (" 6 " " " ")

1 mark " 4,35 Kčs (" 2,40 " " " ")

Concerning the prices of hotel rooms, they are rather high, foreigners have 100% added to the usual price, so that you would pay about 300-400 Kčs for one night (for the whole family) in an average hotel. Regardless this, there are troubles with accommodation at all, because just in the period, you are going to come, the World Peace Congress will take place in Prague and hotels are occupied for this (even the Technical University finishes its semester sooner to make the student dormitories free for the Congress). There is still some hope to use the service of "PragoTur", this is an organization which arranges accommodation in private apartments; several our guests

already used this service and their accomodation was quite well. The room for three people would be approximately 180 Kčs for one night. Anyway, I shall try again, but it seems me that Pragotur would be the best (and maybe the unique) possibility.

I am very pleased that you are going to come to Prague and looking forward to see Zora, Mladen and yourself.

Věra.

June 3, 1983

Dear Vera,

Thank you very much for your letter of May 24 and for all arrangements and information concerning my visit to Prague.

We have not yet fixed our plans for the trip but we shall come to Prague from Vienna. I shall let you know our time of arrival later.

Since the prices of hotels in Prague are pretty high and since you have troubles in finding a place for us, perhaps you can reduce the reservation to only two nights (saturday and sunday) but this only in the case you have not made the reservation so far. Anyhow, I expect a letter if you will final arrangements. Since we travel by train, we can decide to start one day sooner or later depending on whether we have accommodation in Prague booked for Friday or Saturday.

I would like to have my lecture on Monday as early as possible, so that I can perhaps get to Ilmenau until Monday evening.

It will be really nice to meet you again and I am looking forward to come soon to Prague.

Kind regards

Yours sincerely

Anton V

3. Proof of the Theorem

According to Lemmas 5 and 6 an m -greatest or m -maximal tricyclic graph must be connected and must not possess vertices of degree one. The connected tricyclic graphs without vertices of degree one can be classified into 15 different types, which are presented on Fig. 4. Vertices of degree two are not indicated on Fig. 4.

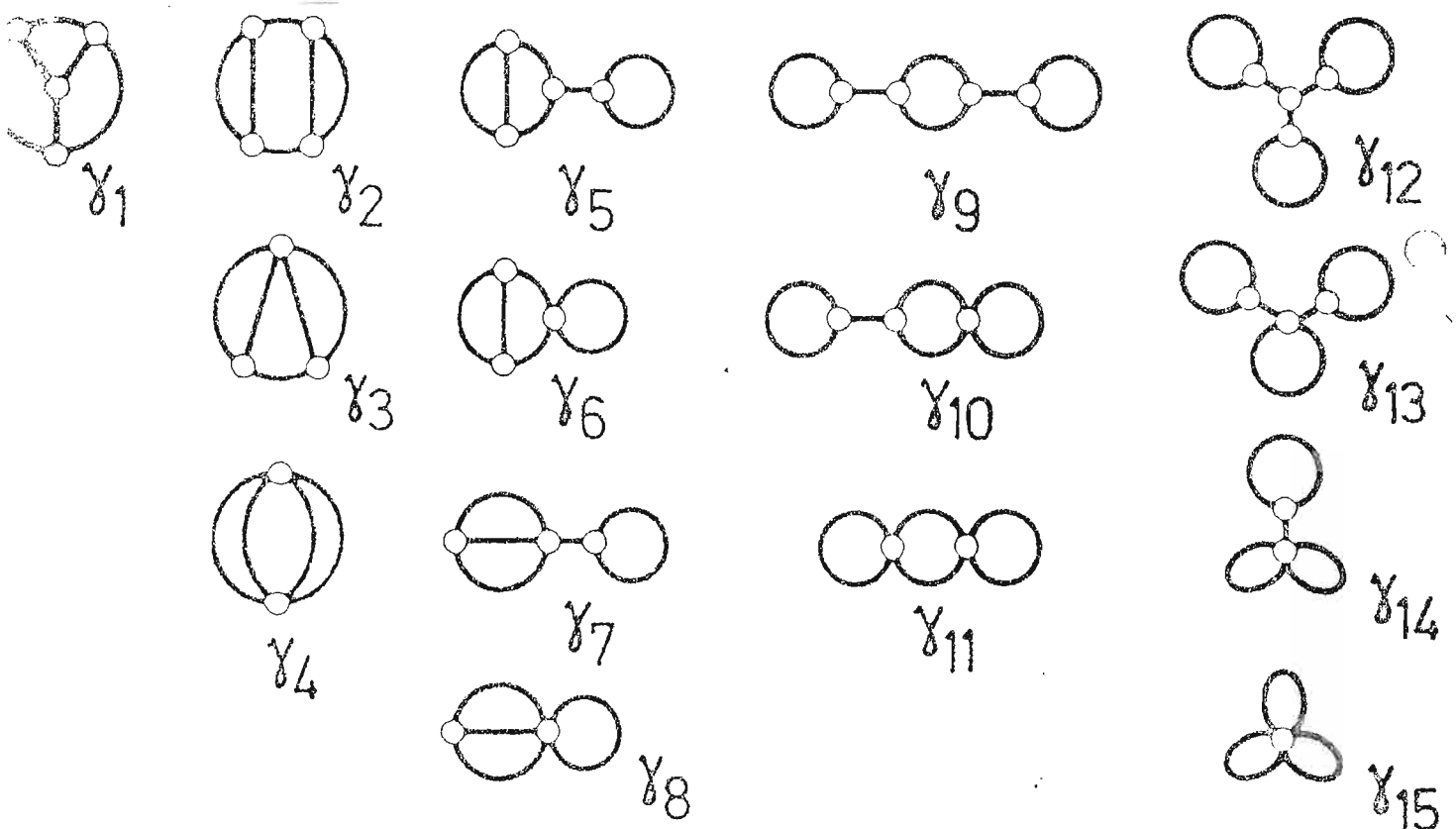


Fig. 4.

We shall denote by γ_i^* ($i=1, \dots, 15$) the classes of those tricyclic graphs which are indicated in Fig. 4. Hence, all graphs which are homeomorphic (i.e. differ only in the number and position of vertices of degree two) belong to the same class.

By $\gamma_i^*(n)$ we denote the set of the graphs from the class γ_i^* , having exactly n vertices.

Note that for every class γ_i^* , $i=1, \dots, 15$, there exists an integer n_i , such that for $n > n_i$, all graphs from $\gamma_i^*(n)$ possess internal paths of length three. For example, $n_1=10$, $n_8=9$, $n_{15}=12$, etc.



V. Trnková

MATEMATICKÝ ÚSTAV UNIVERZITY KARLOVY
PŘI MATEMATICKO-FYZIKÁLNÍ FAKULTĚ UK

186 00 PRAHA 8, Sokolovská 83

Telefon 23 16 034

č. j.

V Praze dne

June, 15, 1983

Dear Gragoš,

I reserved for you and your family the room in Pragotur from 24th June till 27th June. Since three nights have to be paid, it will be better if you come really on 24th June. And it is necessary to come to the Pragotur office before 19 o'clock (= 7 p.m.), this could influence your choice of the train. Let me know as soon as possible the time of your arrival, please, I will wait for you.

Prof. Fiedler tries to arrange that you would receive some amount of money for your talk but still it is not sure.

Looking forward to see soon
Zora, Mladen and yourself

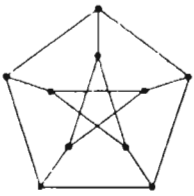
Věra.

Poštovani druže profesore!

Predložio sam Vas za recenzenta za rad
D.Jevtić i Z.Lukić - Apsolutna Upravljivost,
koga ste Vi svojevremeno letimično pregledali.
Rad šaljem na objavljivanje u časopis Zajednice
viših škola.

Nadam se da ćete imati vremena da pregledate rad,
koji Vam dostavljam u posebnoj koverti.


Dušan Jevtić



Journal of Graph Theory

FOUNDER-EDITOR

Frank Harary
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MANAGING EDITORS

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 Memphis State University
 Memphis, Tennessee 38152
 (901) 454-2495

TENTATIVE ITINERARY - SUMMER 1983

<u>Day-Date</u>	<u>Month</u>	<u>Flight</u>	<u>From</u>	<u>To</u>	<u>Timetable</u>
θ 28	April	TW 293	Detroit	St. Louis	1030-1101
θ 28		TW 177	St. Louis	San Francisco	1210-1407
S 30		PS 228	San Francisco	Los Angeles	0955-1059
S 30		SQ 11	Los Angeles	Tokyo	1415-1730 + 1
M 9	May	SQ 7	Tokyo	Singapore	0930-1845
F 27		SQ 24	Singapore	Colombo	2130-2230
F 3	June	SQ 24	Colombo	Athens	2330-0645 + 1
T 7		TW 841	Athens	Rome	1030-1125
S 25		TW 841	Rome	New York	1225-1535
M 27		TW 705	New York	Detroit	1710-1904

Please allow ten days for a letter in a white airmail envelope.

1-8 May
 Professor Frank Harary
 c/o Prof. Jin Akiyama
 Dept. of Mathematics
 Tokai University
 Kitakaname, Hiratsuka 259-12, JAPAN

10-26 May
 c/o Prof. H. H. Teh
 Department of Mathematics
 National University of Singapore
 SINGAPORE 0511

28 May - 3 June
 c/o Mr. John D. Guyer
 Asia Foundation
 3/1A Race Course Ave.
 Colombo 10, SRI LANKA

7-25 June
 c/o Prof. M. Gionfriddo
 Seminario Matematico
 Citta Universitaria
 Viale A. Doria 6
 I-95125 Catania
 ITALY

FH/ms
 4-8-83

H. P. PATIL

Dom studenta 439

Ul. Zamenhofa 10 A

00-187, Warsaw

Poland

25.7.83

Dear Professor, Dr. D. Cvetkovic

I, a research student of Dr. V. R. Kulli (Deptt. of Mathematics, Gulbarga University, India) would like to introduce myself through this letter.

I, (H. P. Patil, Deptt. of studies in Mathematics, Karnatak University, Post-Graduate center, Gulbarga, India) got my Ph. D. Degree in April 1981 in Mathematics; Graph Theory under the guidance of Dr. V. R. Kulli. Professor, later I came to know that you were one of the reviewers (i.e., external referee) of my thesis "Some contributions to the theory of graphs" submitted to the Karnatak University, India in 1980 for the degree of Doctor of Philosophy in Mathematics. Professor, for that I have great pleasure to express

my sincere kind thanks and deep sense of gratitude to you. Now, I am in Poland studying in Warsaw University for Post-Doctorate. Next year by April I will go back to India. Therefore, Professor, I am very interested to see you in Yugoslavia. Kindly make me an opportunity to have consultation with you.

Professor, let me know your free time so that I can come to Yugoslavia (at your free time) for short discussion with you. Moreover, I am grateful to you if accommodation is arranged for ~~me in Yugoslavia~~ my stay in Yugoslavia (I will pay for accommodation fee).

Rest is O.K, sir.

Thanking you, sir
and awaiting for your
kind reply.

With kind regards from



(H. P. Patil)

THE UNIVERSITY OF MICHIGAN
DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING
ANN ARBOR, MICHIGAN 48109

AREA CODE 313
764-6485

10 Aug. 83

Prof Drago Cveticovic

Dear Drago,

Several years ago I mailed you 500 denars when the rate was 20 denars = \$1, U.S.; now the denar is worth much less.

Much later you wrote me that Michael Doob would send me the money in dollars but nothing ever arrived from him.

Now I have the following suggestion to end this matter. My white "captain's cap" has been lost in a taxi in New York. I had bought it in Beograd. So if you can find either a white or black captain's cap and mail it to me, I will be satisfied. My hat size is $7\frac{1}{8}$ inches which is 16 centimeters

Thank you,

Frank

P.S. The ^{cap} ~~hat~~ which I bought was the largest size in the store.

To Dr. Cvetkovic Date 5-7-80 Time _____

WHILE YOU WERE OUT

M Dr. Capobianco of _____

Phoned you Wants to see you

Asks that you phone Called on you


Tel. No. _____ Wants an appointment

Will call back

Returned your call on _____

Message He wants you to keep the copy of his book.

He is ill and will not be attending the
conference.

O-1170 - REV. 5-74  1

Signed Margo

INSTITUT FÜR ÖKONOMETRIE UND OPERATIONS RESEARCH
RHEINISCHE FRIEDRICH - WILHELMS - UNIVERSITÄT BONN

ABTEILUNG OPERATIONS RESEARCH
NASSESTRASSE 2
D - 5300 BONN 1
TELEFON (0228) 73 92 85 / 86
TELEX 886657 unibo d


Bonn, September 1983.

Dear Colleague:

I am pleased to announce that as of October 1983 my permanent address will change to :

Maciej M. Syslo
Institute of Computer Science
University of Wrocław
ul. Przesmyckiego 20
51151 Wrocław
Poland

Sincerely yours,


Maciej M. Syslo

P.S. I enclose a flier of our recent book which may be of some interest to you (or to your library).

Kragujevac, 7. 9. 1983.

Dragi Dragoše

Za tačno 7 dana putujem u SAD. Ne verujem da ću stići da u međuvremenu odem u Beograd. Zato ti pišem ovo pismo

1. U vezi našeg rada o maksimalnim tricikličnim grafovima nisam promenio svoje mišljenje. Voleo bih da ga šampamo u PIM. To je moja želja. No budući da je to zajednički rad, učini s njim šta hoćeš.

2. Batagej je napravio lep doprinos našem članciću o 1-faktorima. Veoma bih se veselio da nam se i on pridruži..

Ne javljaj da li te je posetio Plummer. Ja sam mu pokazao rad o 1-faktorima i on smatra da to nije od ranije poznati rezultat.

3. Budući da do sada nije stigla recenzija mog rada o heksagonalnim sistemima, moram te zamoliti da se postaraš o njegovoj tehničkoj pripremi (izrada crteža i sl.) a takođe da izvršiš i korekturu. Shodno tim, međutim, da ću se ja ranije vratiti nego što

če "Zbornik" biti objavljen.

4. Moja adresa će biti :

Department of Chemistry
University of South Carolina
Columbia, S.C. 29208
USA

Do vidjenja u decembru

Jvan

16.9.1983

Dr. H. P. Patil,
Dom studenata 439
Ul. Zamenhova 10A,
00-187 Warsaw,
Poland

Dear Dr. Patil,

Thank you for your letter of July 25. I am apologizing for this late reply which has been caused by Summer travelings and a lot of duties when returning back.

I am glad to hear that you have successfully defended your thesis. After I have sent my report on your thesis to India, I have not received any message related to it.

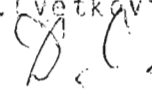
You are welcome to Belgrade at any time. Unfortunately, I cannot provide you any financial support since due to economical crisis university funds are very small. If you let me know the time of your arrival I can book for you a room in a hotel. You can have a room in a not luxurious but very good hotel for about dinars including breakfast.

We have a graph theory seminar here which will start in this academic year on the third Friday in October and will be held approximately each second Friday. I hope you will be kind to deliver a lecture in our seminar.

With kind regards,

Yours sincerely

D. Cvetković



Beograd 19.9.1983.

Dragi Kolego Herga,

U vezi sa telefonskim razgovorom sa njim Vam sledeće reference za teoriju konačnih polja (polja Galois).

Osnovne stvari, uate, na primer, u mojoj knjizi "Discrete matematičke strukture, Matematičke za kompjuterske nauke, II izdanje, Naučna knjiga, Beograd 1983". U toj knjizi imate nekoliko referenci za produbljivanje materijala, na primer:

G. Birkhoff, T. C. Bantee, Modern applied algebra, New York 1970.

To imate poglavlje od diskretne struje "Finite fields" i to bi, odmah bilo dovoljno da pročitate. Pošto program predmeta nije sasvim fiksiran, možete da uzmete i bilo koju drugu knjigu gde su konačna polja obuhvaćena u sličnom obimu.

Poglavlje o konačnim poljima imate u knjizi

A. Albert, Fundamental concepts of higher algebra, 1956

Trabenta kaže neku knjigu sa naslovom "Discrete Mathematical Structures" nego neku knjigu o algebrama. U tim knjigama je obično opisan i teorija Galois-a u vezi sa rešivšću algebrskih jednačina što me spada u program predmeta.

Bilo bi dobro da mi se 10-14 dana pre istih parata pisnom sa predlogom teorijama. Napišite mi takođe koje ste oblasti po knjizi knjigama vodili.

So podrazumeva

D. Belović

A. GRADVAC
»RUĐER BOŠKOVIĆ« INSTITUTE

Bijenička 54, 41001 Zagreb, Croatia Yugoslavia

Prof.

Dragojević Cvetković

Elektrotehnički fakultet

11001 Beograd, POB 816.

P. O. Box: 1016

Phone: (041) 424-355

Telex: 21383 yu irb zg

Cable: INSTRUBO, Zagreb

Our ref.

Your ref.

Date 21.09.1983.

Dragi Profesore Cvetkoviću,

Nedavno sam bio kod Gutmanna posle dolaska i on me obavijestio o sastanku o grafovima koji organizirate sljedeće godine. Možete li mi poslati preliminarnu obavijest jer bih voljelo na tom skupu?

U odvojenoj kuverti vam šaljem još radio-va. Noviji rezultati su u štampi i odnose se na vrlo uzbudljivu temu: "Topological Effect on Molecular Orbitals". Volio bih da se skoro sretne i da vam ispričam tu temu. Imate li prilike doći u Zagreb? Da li postoji neka mogućnost da organizirate susret u Beogradu? Ja sam spreman da održim seminar-dva. Stalno vas podravlja Ante Gradić.

Ljubljana, 6. X. 1983

Poštovani dr. profesor,

u vezi sa mojim ispitom iz logike i algebre poručujem vam sledeće.

Osnovne stvari iz tri preporučene oblasti sam obradio po vašoj knjizi „Diskretne matematičke strukture, Matematika za kompjuterske nauke, Naučna knjiga, Beograd 1978“. Za svako pojedino područje upotrebljavao sam još specijalnu literaturu.

Matematičku logiku sam obradio po knjizi „Stanislav B. Drešić, Elementi matematičke logike, Zbornik za matematičku i nastavna sredstva, Beograd 1983 (četvrto izd.)“.

Mehaničko dokazivanje teorema sam proučio po knjizi „Chang C. L. i još jedan Kinez, Mechanical Theorem Proving“, poglavlja 4 i 5, tj. Herbrand's Theorem i The Resolution Principle, str. 45-99. Tu knjigu ste mi vi preporučili; od Tanjige sa instituta Josif Stefan dobio sam samo fotokopije, zbog čega nemam detaljnije podatke o knjizi. Nadam se da vi znate o knjizi i radi.

Permutacione grupe sam proučio po knjizi „Helmut Wielandt, Finite Permutation Groups, Academic Press, New York and London 1964“, poglavlja I i II (Fundamental Concepts i Multiply Transitive Groups).

Matrične reprezentacije grupa: proučio sam materiju iz vaše knjige "Kombinatorska teorija matrica, Naučna knjiga, Beograd 1980", odeljak 13.3. Većinu dokaza sam našao u knjizi "Dmitri Kurepa, Niska algebra, Zavod za izdavanje udžbenika SR Srbije, Beograd 1971" (poglavlje 33 - Predstavljanje algebarskih struktura).

Konačna polja sam pripremio po knjizi "G. Birkhoff, T. C. Barteo, Modern Applied algebra, McGraw-Hill Book Company - ruski prevod Мир, Москва 1976" - poglavlje 12 (Кольцовые поля).

Pomću vam da bi mi ispitni termin najviše odgovarao u rednim od 17. do 22. oktobra; možda ne pre 15. oktobra.

Sa pozdravom

Janko Varga

Beograd, October 17, 1983

Dear Frank,

Thank you for your letter of August 10, which I received only in September from Miss Ostrogorski. Sorry for this little problem with your money. It seems that Michael Dobo has simply forgotten to send you the money. (I have a little money with him). My wife tried several times to find a captain cop for you but without success. So, it remains that I ask Michael again to send you the money and I shall do that in the first letter.

I established that in the time you were here a dollar was equal to about 33 dinars and hence I shall ask Michael to send you 15 dollars. (I have dollars also here in hand but according to the regulations it is not possible to send you them).

I hope you received my card from East Germany. Just to be sure, I confirm that your paper "Realization of prople regular numbers" (with R. Schmidt) has been accepted for publication in Proc. IV Yugoslav Seminar on Graph Theory, Novi Sad 1983. I hope by the end of this year this book will be printed.

With kind regards

Yours sincerely

Doopov

THE UNIVERSITY OF MICHIGAN
DEPARTMENT OF MATHEMATICS
347 WEST ENGINEERING BUILDING
ANN ARBOR, MICHIGAN 48109

AREA CODE 313
764-6485

October 25, 1983

Dear Dragos,

I'm embarrassed by your letter of 17 October and hope that you have not yet written to Michael ~~Dube~~. Please just hold on to the 15 dollars so that when and if I ever visit Yugoslavia again, which is highly indefinite, we will be able to go together to the hat store and I can buy myself a cap which will fit me.

Doob

Yes I did receive your card and am glad to know that my paper with Rüdiger Schmidt is accepted for publication. I hope that you plan to send me a copy of the book in which this paper will appear and if you can send one to Schmidt, here is his address:

Dr. R. Schmidt
Wendum 30
D-2060 Bad Oldesloe
WEST GERMANY

Best regards to you and your wife.

Yours sincerely,

Frank

Frank Harary

FH/dal

Ljubljana, 4. XI. 1983

Poštovani druze profesore,

Zahvaljujem vam za pismo od 20. x. 1983.
Saljem vam fotografiju Klingorovog članka iz Arti-
ficial Intelligence i spiral knjiga koje postoje
u Ljubljani. Javim vam ako budem pronašao
još koju. Kao što se vidi iz spiska, većina
knjiga (19 od 21) se nalazi u Matematični
Knjižnica (= Matematičnoj biblioteci) Fakultete za
naravoslođe in tehnologije.

Sa pozdravom

Janko Štegraj

Aleksi Cvetković

mojih

Iscrpljeni su tiraži sledećih knjiga:

1. Uvod u specijalne funkcije;
2. Matematika III;
3. Polinomi i matrice

Najlepše te molim: 1. za primedbe na tekst; 2. za predloge šta treba dodati ili izbaciti da ove knjige budu korisnije i boljeg kvaliteta; 3. verovatno da si uočio i neke štamparske greške. Koje?

S obzirom da će uskoro doći do novog izdanja, primedbe i predlozi su mi veoma dragoceni, a istovremeno hitni.

Molim te da primedbe i predloge dostaviš pisмено na adresu:

5. XI. 1983

11000 Beograd
Smiljanićeva 38

S pozdravom
D.S. Mitrinović

D.S. Mitrinović

H. P. Patil
Dom studenta 439
Ul. zamienhofs 10A
00-187, Warsaw
(Poland)

Professor D. Cvetkovic'
Faculty of Electrical Engineering
University of Belgrade
Yugoslavia

12. 11. 83

Dear Respected Professor,

I am very glad to receive your kind letter of September. Professor, many thanks for your kind invitation to Belgrade. I am very happy to know the informations regarding seminars and discussions on Graph Theory held in this academic year in your university. Professor somehow, unfortunately due to official inconvenience and in the matter of poor financial help my visit to Belgrade was unsuccessful in this year. Professor, I will try to visit you in next coming year, and in advance I will drop a letter to you.

Professor, I am very grateful for your kind report and comments made on my Doctorate work. Somehow I learn this matter through Dr. V.R. Kulli only. In fact, soon after my defence I left India, and after few days Dr. Kulli also left to Tanzania as a visiting Professor for three years. That is why, there was quite sufficient delay in writing a letter to you. Professor, I beg your kind excuse in this matter.

Lastly, Professor I kindly beg your kind help in case any type of opportunities happens to meet for purposes like me through your university in future.

Thanking you, sir

Yours faithfully

UNIVERSITI MALAYA

LEMBAH PANTAI
KUALA LUMPUR
MALAYSIA



ALAMAT KAWAT: UNIVSEL
CABLE ADDRESS: UNIVSEL

TALIPON: 560022 (16 SARAF)
TELEPHONE: 560022 (16 LINES)

BIL KAMI:
OUR REF:

Dr. G. L. Chia
Department of Maths.
University of Malaya
Kuala Lumpur 22-11
Malaysia
Dec. 13, 1983

Dear Prof. Cuatrecasas, D.

I should be most thankful if you could kindly
let me have a reprint of your paper

On graphs whose spectral radius does not
exceed $(2 + \sqrt{5})^{1/2}$

appearing in *Acta Combin.* 14 (1982) 225-239.

With many thanks

Your sincerely
Chia

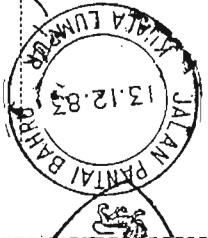




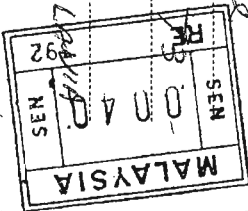
← Mula Mula lipat disini — First fold here —



To Professor D. Cvetkovic
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije
P.O. Box 816
11001 BELGRADE - Yugoslavia



Setem
lekat
disini.



Nama dan alamat Pengirim:
Senders' name and Address:

JABATAN MATEMATIK
Universiti Malaya
Kuala Lumpur 22-11
Malaysia

KUALA LUMPUR 22-11

MALAYSIA.

G. L. Chia
Dept. of Math
UNIVERSITI MALAYA

← Kemudian lipat disini — Second fold here —

SURAT UDARA TIADA BOLEH MENGANDUNGI APA-APA LAM-
PIRAN PUN JIKA DIDAPATI ADA AKAN DIKENAKAN BAYARAN
LEBIH ATAU PUN DIKIRIMKAN DENGAN MEL BIASA.
AN AIR LETTER SHOULD NOT CONTAIN ANY ENCLOSURE;
IF IT DOES IT WILL BE SURCHARGED OR SENT BY ORDINARY
MAIL.

Dicetak oleh Chop Chiat Cheong, P. Pinang.
Borang ini dituliskan oleh Ketua Pengarah Pos, Malaysia.
Nombor — M18

— Membukanya potong disini — To open cut here —

— To open cut here —

RUDER BOŠKOVIĆ INSTITUTE
ZAGREB



Zagreb, 05. prosinca 1983.

Dragi profesore Wetkoviću,

Toljem vam naj najgorji vol (nađem
se da ve imate onaj petvolni iz vroćice
o relevantnim relacijama).

Ispitujem mogućnost da dođem na
dugo u Beograd u okviru jugoslovenske
međuniverzitetske suradnje. Hoje bi
vam vrijeme u 1984. odgovorilo za takov-
nu posjetu?

Polučeno vas potkrovlja i Feli vam mnogo
vred u Novoj 1984. vez

Stite Jovanec.

Praha, 28th of December 1983

Dear Professor Cvetković,

I am interested in Graph Theory and I would be very glad if you send me some of your paper on this Topics.

E.g. papers on Spectra of Graphs and on Cubic Graphs.

Preliminary thanks for your kindness.

Yours sincerely

Richard Krížal

Prof. Dr. Dragos Cvetkovic,
Faculty of Electrical Engineering
University of Belgrade
11001 Beograd, Serbia
Yugoslavia

Dr. A. Shalabi
Chemistry Department
Faculty of Sciences
Benha University
Benha - EGYPT

Dear Prof. Dr. Cvetkovic

My greetings from Benha

I will be in Kragujevac in the period between ~~Jan~~
1st of February to 1st of June (1984) to do a joint
study with Prof. Gutman. I would like to visit you
in Belgrad in this period. If this is possible please
let me know by a letter to Kragujevac.

Thank you

Yours Sincerely

Dr. A. Shalabi
/22/11/1984

6.2.1984

3.?

Prof. M.M. Syslo
Institute of Computer Science,
University of Wrocław
ul. Przesmyckiego 20
51151 Wrocław
Poland

Dear Mr. Syslo,

Thank you very much for your letter of February 17 with the manuscript: "A Characterization of Generalized Line Graphs whose Complements are also Generalized Line Graphs".

I am sorry that I have to disappoint you. Enclosed is a copy of the manuscript "A note of generalized line graphs" by Z.Radosavljević and S.Simić in which the very same problem is solved. This paper has been presented at the Third Yugoslav Seminar on Graph Theory in Kragujevac in June 1982 and is now in press in Publ. Inst. Math(Beograd). The proofs have been read just a few days before your letter came and in a few weeks the paper will be published. Hence, there is no use that I submit your paper for publishing.

However, Simić and Radosavljević, having in view our personal relations in the past, have the following proposal to you and to Mr. Topp. Under condition that the editor of the journal allows, Simić and Radosavljević are ready to put also your names at the article so that the article would have four coauthors. If you agree with this proposal send a cable since the thing is urgent.

Simić and Radosavljević work now on the problem of determining graphs G for which both G and \bar{G} have the least eigenvalue greater than or equal to -2 .

We have your book on algorithms. The book seems to be very useful. Unfortunately we have already implemented our system "Graph" in FORTRAN.

With kind regards,

Yours sincerely,

D.Cvetković

12.3.1984

Prof. J.J. Seidel
Technological University
Department of Mathematics
POB 513
5600 MB Eindhoven, The Netherlands

Dear Mr. Seidel,

Enclosed are reprints of two papers of mine which might interest you. You will soon receive the whole Proc. IV Yugoslav Sem on Graph Theory.

I wish to inform you about my traveling plans for this summer, and ask you something in relation to that.

Micheal Doob is going to spend a year in England with Biggs. He will come at the end of July via Luxemburg and Netherlands which you might already know. Doob and I have an appointment to meet in England at the beginning of August. On the other hand, I have been invited to the Oberwolfach graph theory conference from 8-15 July.

It would be a good occasion for me to visit Holland again after July 15 and to meet you and other colleagues.

Please let me know whether such plans are possible. Will you, Bussemaker, von Lint or some of younger colleagues be at that time in Eindhoven? I would take profit of seating in your laboratory and keeping contact with you or/and other colleagues. The whole trip will be partially supported from different sources (including my University) and partially paid by myself. Concerning my stay I would ask Mrs. van Werkum, from the International Neighbourhood Group, (with whom my wife exchanges the letters from time to time) to find for me a cheap apartment. By the end of July my wife and my son would join me in Eindhoven and after a few days we would go together to England to meet Doob's.

With kind regards to you, your wife, Bussemaker and von Lint.

Yours sincerely,

Dragoš Cvetković

INSTITUT FÜR ÖKONOMETRIE UND OPERATIONS RESEARCH
RHEINISCHE FRIEDRICH - WILHELMS - UNIVERSITÄT BONN

ABTEILUNG OPERATIONS RESEARCH
NASSESTRASSE 2
D - 5300 BONN 1
TELEFON (0228) 739285/86
TELEX 886657 unibo d

Bonn, February 17, 1984.

Professor Dragos M. Cvetkovic
Faculty of Electrical Engineering
University of Belgrade
Belgrade
Yugoslavia

Dear Professor Cvetkovic:

Enclosed please find two copies of our paper:

M.M.Syslo and J.Topp, A Characterization of Generalized Line Graphs whose
Complements are also Generalized Line graphs,

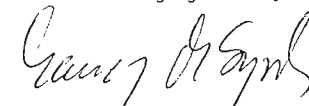
which we hope you will find suitable for submitting, on our behalf, to
Publ. Inst. Math. (Beograd)(N.S.), where several papers on similar topics
have been published. If the paper is accepted we are ready to submit also
original figures, if requested by the publisher.

Please note our mailing address:

Maciej M. Syslo
Institute of Computer Science
University of Wrocław
ul. Przesmyckiego 20
51151 Wrocław
Poland

With best regards.

Sincerely yours,


Maciej M. Syslo

Tomaž Pisanski
Department of Mathematics
University of Ljubljana
Jadranska 19, p.o.box 14
61111 Ljubljana, Yugoslavia

Ljubljana, 19 March, 1984

Professor Dragoš Cvetković
University of Belgrade
Faculty of Electrical Engineering
Bulevar Revolucije 73
11000 Beograd

Dear Professor Cvetković:

Professor Wilfried Imrich (University of Leoben, Austria), Professor T.D. Parsons (Pennsylvania State University) and I are organizing a graduate course in ALGEBRAIC AND TOPOLOGICAL GRAPH THEORY at the Inter-University Centre in Dubrovnik, Yugoslavia. The course will take place from April 8 till April 19, 1985 and will cover the following topics: spectra of graphs, isomorphism algorithms, graphs and combinatorial group theory, embeddings of graphs into surfaces, automorphisms of embedded graphs, covering graphs, voltage graphs. Special problem sessions will also be included.

It is my pleasure to invite you to this course. We would like you to prepare a series of lectures on spectra of graphs and related topics. Here are the names of some mathematicians we expect to participate. A. Bouchet, N. Biggs, C. Godsil, I. Gutman, Brad Jackson, T. Tucker. Cris Godsil already confirmed his participation.

Please, let me know as soon as possible whether you can accept this invitation. Due to the charter of Inter-University Centre each participant normally covers his own expenses. If you find it difficult to do so we will try to raise money to cover part of your expenses.

If you need any further information please let me know immediately.

Sincerely yours,



Tomaž Pisanski

4.4.1984

Dr. J.L. Selfridge
Mathematical Review
611 Church Street
POB 8604
Ann Arbor, MI 48107
USA

Dear Mr. Selfridge,

Thank you for your letter of March 28.

On the behalf of Editors of the Proceedings of the 4th Yugoslav seminar on graph theory (Novi Sad, 1983), I am informing you that papers in that volume are research paper in final form and no version of them will be submitted for publication elsewhere. We are sorry that we did not know your policy concerning this topic. Otherwise we would put such a statement on papers. Hoping this in view I am asking you most kindly to consider the papers from this volume for reviewing individually in Math. Reviews.

The proceedings are spread in a few hundred copies, by regular exchange of publications over the whole world and that includes all important graph theory centres.

With kind regards,

Yours sincerely

D.Cvetković

✓

Mathematical Reviews
611 Church Street
P.O. Box 8604
Ann Arbor, MI. 48107, USA

March 28, 1984

Professor Dragoš M. Cvetković
Univ. Belgrade, Fac. Electrical Engrg.
P.O. Box 816
11011 Beograd
Yugoslavia

Dear Professor Dragoš M. Cvetković:

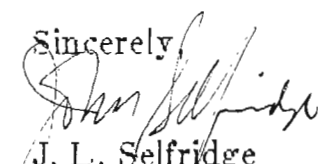
We have received the proceedings

Graph Theory (Novi Sad, 1983)

and find that it is impossible to decide which of the items are research papers in final form and which are preliminary versions of papers which are expected to be submitted for publication elsewhere.

We would like to draw your attention to the **Mathematical Reviews** policy concerning papers published in proceedings. We enclose a copy of our editorial statement of January 1983. In the absence of any statement of the kind outlined there, we will be inclined only to list the papers in the table of contents and in the index of **Mathematical Reviews** but not to review them further. If we could hear from you by return mail concerning the status of the papers in this proceedings, it might still be possible to reconsider their treatment in **Mathematical Reviews**. Thanks in advance for helping us to alert authors and editors to this policy.

Sincerely,



J. L. Selfridge
Executive Editor

Mathematical Reviews

JLS;jos:bjd
Enc.

17.4.1984



Prof. M. Barner
Mathematisches Forschungsinstitut
Oberwolfach
Albenstr. 24
D- 7800 Freiburg i Br.

Dear Professor Barner,

I have been invited to Graph Theory Conference from July 8-14, 1984. I would use this occasion to demonstrate to participants an interactive programming system called "Graph" an expert system for graph theory, developed at University of Belgrade. That would be possible if there is a suitable computer at the place of the conference or somewhere in the neighbourhood.

The best case would be if you have a 32 K PDP-11/34 computer supported by the disk drive RK05 and the graphical display (with light pen) VT-11 using "VT11 Graphics Support" described in Chapter 1 of "FORTRAN/RT-11 Extensions Manual" (Dec.11-LRTEA-B.D). If other type computer is at the disposal I would ask you to inform me about the computer configuration you have with basic data about it. I would then let you know whether our system "Graph" can be easily adapted to work on your computer.

I hope that such a demonstration would be attractive and useful for the participants of the conference.

With kind regards,

Yours sincerely,

D.Cvetković

Department of Applied Mathematics
Faculty of Science
Konan University
Higashinada, Kobe 658, Japan



April 25, 1984

Professor Dragoš M. Cvetković
Faculty of Electrotechnics
University of Beograd
Beograd, Yugoslavia

Dear Professor Cvetković :

Recently I am reading your quite useful book "Spectra of Graphs". Unfortunately the copy I am reading lacks pages 193-208 (actually 321-336 are inserted). I am extremely grateful to you if you kindly could supply me 193-208.

Sincerely yours,

Noboru Ito

Professor of Mathematics

Dear Mr. Cvetković,

Thank you very much for your letter from April 17th, 1984

We are sorry to tell you that the computer configuration, which you mentioned in your letter, is not available at our institut.

We only have the following simple computer equipment:

- Commodore PET Computer, 3001 Series (BASIC, 31743 Bytes)
- Commodore CBM dual disk drive, Model 4040
- Commodore Tractor Printer, 3022 Series

With kind regards

Yours sincerely,

A. Hofmann
Alfred Hofmann

12. maja 1984.

Profesore Coetkoviću,

Šaljem Vam program za kodiranje formule.

Ulazni podaci su: niz FOR koji sadrži simbole date formule, dužinu LF. Na izlazu dobija se niz KODF, dužine LKODF koji sadrži kodove simbola formule i završava se ~~simbolom~~ kodom (-28) simbolom za kraj formule (sastavka).

Zagrade su kodirane prema našem dogovoru:

- zagrade u predikatima i terminima sa -26 i -27, tj. "(" i ")"
- ostale sa -1 i -2, tj. "[" i "]"

Za sve disjunkcije koristi se kod -5

Poželjno je da u sistemu GRAPH ugradite režim rada sa ulazom formulaškog zapisa, osim postojećeg sa ulazom teksta. U tom režimu nakon uvođenja formule, pozvao bi se pp. za kodiranje (koji šalje šaljem) i pp. za transformaciju u skup sastavaka, pa zatim ostali za traženje dokaza.

Takođe, poželjno je da se uvede mogućnost uvođenja "aksioma" koje će se koristiti u dokazu kao brojni sastavci niza 'CLAUS'. To bi omogućilo da se rezolucijom - indukcijom dokazuju i teoreme formalne aritmetike, kao i da se rešavaju razni drugi zadaci (prikazanje robota, odgovori na pitanja i sl.) čiji je matematički model skup formula predikatskog ranga 1 reda, što bi svakako proširilo mogućnost sistema uz eto, minimalne dogume!

Naravno još ćemo se čuti telefonom i videti.

Pozdravljam Vas
K. Coetković

INSTITUT FÜR OKONOMETRIE UND OPERATIONS RESEARCH
RHEINISCHE FRIEDRICH - WILHELMS - UNIVERSITÄT BONN

DIREKTOR: PROFESSOR DR. RER. NAT. B. KORTE

Lovasz

Professor Dr. D. Cvetković
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O.Box 816
11001 BELGRADE
YUGOSLAVIA

ABTEILUNG OPERATIONS RESEARCH
NASSESTRASSE 2
D-5300 BONN 1
TELEFON (0228) 739285/86
TELEX 886657 unibo d

Bonn, May 13, 1984

Dear Professor Cvetković:

Thank you again for your letter of February (March?) 6, 1984. I hope you have received our telex, sent on the same day we received your letter, in which we accepted with great pleasure your suggestion concerning our paper. We are wondering whether The Editor of Publ. Inst. Mat. (Beograd) agreed to include also our names in the paper of Simić and Radosavljević. In any case, we should appreciate receiving a copy of the paper published.

We, Dr. J.Topp and myself, work on some graph equations involving generalized line, middle, and total graphs. I enclose a copy of our recent report and we hope to send you more manuscripts in the future.

On behalf of Dr. J.Topp, I would like to ask you if there exists any possibility for him to visit you and your Institute for the time of one to three months. Since his main interests are presently on line, middle, and total graphs and graph equations, I am sure that he would greatly benefit from discussions with you and your colleagues. Could you also inform us about forthcoming Yugoslav meetings on graph theory.

I am looking forward to hearing from you.

Best regards,

Sincerely yours,

Maciej M. Syslo
Maciej M. Syslo

Please note that I will be in Bonn till the end of September 1984 and then I will return to Wrocław.

Belgrad, den 3. Juni 1984.

Lieber Herr Jurich,

Es freut mich sehr Sie im Oktober an der Tagung in der DDR, als auch an der Internationalen Schule über die Graphentheorie in Dubrovnik nächstes Jahr, zu treffen.

Der Zweck dieses Briefes ist eine Bitte an Sie, mit Informationen über einige Reiseumöglichkeiten verbunden. Ich wurde von M. Doob für sechs Wochen nach London eingeladen (15. August bis 1. Oktober). Nämlich, M. Doob wird das Jahr von Juli 1984 bis Juli 1985 in London verbringen (Subatival leave) und wir vorbereiten ein neues Buch in einer Zusammenarbeit. Meine Kosten sind bedeckt ~~aber~~ ich würde gerne meine Frau und meinen Sohn für zwei Wochen ~~mit~~ (ungefähr 18.8.-1.9) mitnehmen. Es ist sehr teuer zur Zeit von hier zu fliegen als auch einen Zug zu benutzen. An der anderen Seite, werden wir unseren Urlaub in Slovenia am See Bled verbringen (6.8.-18.8). Deshalb bin ich darauf gekommen, vielleicht gibt es eine billigere Möglichkeit von Austria nach London zu fahren.

↑
Unter der Voraussetzung daß das Fliegen nicht zu viel Zeit nehmen wird, bitte ich Sie liebenswürdig zu sein mich über die folgenden Sachen zu informieren:

1. Preis für eine reguläre Flugstrecke nach London und zurück (von Wien oder vielleicht Graz oder Salzburg).
2. Dasselbe für den Zug.
3. Über spezielle Möglichkeiten mit Flugzeug (Charters, Reisen organisiert von touristischen Gesellschaften, u.a.).

Mit freundlichen Grüßen an Sie und an Ihre Frau, auch von meiner Familie

Dr.
Draško Bekrouč

Beograd, 4.6.1984.

Dragi kolega Bata Gely,

Žao mi je što ste bili spriječeni da dođete u Beograd. No sigurno, biće prilike da se još sretnemo.

Za dva do tri dana i Mladenović biće porovo na Bledu u avgustu od 6-tog do 18-tog u hotelu "Sloboda". Ako budete u to vreme u Plemeljovoj kući moći ćemo opet do vremena da provedemo zajedno.

Imao bih se Vas malom molbu u vezi informacije o putovanjima. Ja bih tražio sa Bleda da odputujem u London gdje sam bio na mesec ipo dana (organizacijom brodom i troškovima putovanja). Međutim, želeo bih da provedem ženu i dete na dve nedelje (18.8. - 1.9. ponkično). Pošto su cene prevoza velike molio bih da se raspitate u Ljubljani i da mi javite o sledećem:

1. Da li postoji redovna avionska veza Ljubljana - London i koliko je cena?

2. Da li postoji neki jeftiniji avionski aranžman (čarter, turističko putovanje i sl.)?

Nadam se da vam ovo nece odvratiti svake
nemena. Unapred sam zahvalan.

Pozdrav vama i porodici

Dražo Bošković

PS. Hvala na separativu koje mi je dao
Pisari.

17.6.1984

Dr. M.M. Syslo
Institut für Ökonometrie
und Operations Research
Abteilung Operations Research
Masse str. 2
D-5300 Bonn 1
BR Deutschland

Dear Mr. Syslo,

Thank you for your letter of May 13, 1984.

Simić and Radosavljević informed me a few days ago that your name and the name of Mr. J. Topp have been put into the paper. I am sure Simić and Radosavljević will send you a part of reprints. The paper should in these days come out of the print.

It was so late to inform you about the Fifth Yugoslav Seminar on Graph Theory (Belgrade, May 17-18). However, the Sixth Seminar will be held in Dubrovnik in April next year together with an International School on Topological and Algebraic Graph Theory. Please contact T. Pisonki (Fakultet za matematiku, Jadranska 19, 61000 Ljubljana, Yugoslavia) if you are interested in these events.

Mr. Topp is wellcomed to Belgrade at any time. I and other colleagues would be glad to keep contact with him and very likely to work together. However, due to economical crisis, all funds are reduced and I do not see any possibility to support him financially.

I am glad to see you in Saalfeld in October. I shall take the part in the Oberwolfach Conference and I shall be in England from August 20 to September 30.

Please give my regards to Prof. B. Korte.

With kind regards,

Yours sincerely,

D. Cvetković

20.6.1984

Prof. M.Barner
Mathematisches Institut Oberwolfach
Albert str. 24
D-7800 Freiburg i.Br.
BR Deutschland

Dear Prof. Barner,

Thank you for the information concerning your computer configuration. It seems that I am not able to demonstrate the programming system "Graph" during the Graph Theory Conference from July 8-14. However, I would be interested in giving a short (say 15-20 minutes) non-formal talk under the title "Interactive Programming System "Graph" - an Expert System for Graph Theory". I am asking you most kindly to try to find a suitable time for this communication when scheduling regular talks.

With kind regards,

Yours sincerely,

D. Cvetković



MONTANUNIVERSITÄT LEOBEN
INSTITUT FÜR MATHEMATIK
UND ANGEWANDTE GEOMETRIE

O. PROF. DR. WILFRIED IMRICH

A-8700 LEOBEN, 1984-06-29
FRANZ-JOSEF-STRASSE 18
TEL. 0 38 42 / 25 55

Herrn
Prof. Dr. Dragos M. Cvetkovic
Department of Mathematics
Faculty of Electrical Engineering
University of Beograd
P.O. Box 816
YU - 11.001 BEOGRAD

Lieber Herr Cvetkovic,

Anbei die letzten Informationen über günstige Flüge nach London. Wenn Sie davon Gebrauch machen wollen, so ist es am einfachsten dies Herrn Godsil in Oberwolfach mitzuteilen, da er mich im Anschluß an die Tagung besucht.

Mit vielen herzlichen Grüßen an Sie und Ihre Familie,

Ihr,

A handwritten signature in cursive script, appearing to read 'W. Imrich'.

Beilage

I. br. 7872

No.

ND/MN

Naučna knjiga
IZDAVAČKA RADNA ORGANIZACIJA
ODRŽAVANJE I PROMETA KNJIGA
Broj 2436
Beograd, 207 1984 god.

U G O V O R

Zaključen između dr DRAGOŠA CVETKOVIĆA, vanrednog profesora Elektrotehničkog fakulteta u Beogradu, sa stanom u Ulici Lamartinovoj br.44 i dr SLOBODANA ŠIMIĆA, docenta elektrotehničkog fakulteta u Beogradu, stanom u Ulici kneza Miloša br.87

(u daljem tekstu autor), kao autora, s jedne strane i Izdavačke radne organizacije »Naučna knjiga«, Beograd, Uzun Mirkova br. 5 (u daljem tekstu »Naučna knjiga«), kao izdavača, s druge strane.

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Osim honorara, autoru pripada i po 5 primeraka odštampanog dela.

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7. Ovaj ugovor napisan je u **5** primeraka, od kojih se **po** jedan nalazi kod autora, a tri kod »Naučne knjige«.

U Beogradu, **29. VI 1979.** ~~1979.~~ **84.**

Za »Naučnu knjigu«

Za v.d.

Direktor

Nikola Dončev



Žiro-račun

Autor

Dragoš Cvetković

1. Dragoš Cvetković

Slobodan Simić

2. Slobodan Simić

Žiro račun:

INSTITUT FÜR ÖKONOMETRIE UND OPERATIONS RESEARCH
RHEINISCHE FRIEDRICH - WILHELMS - UNIVERSITÄT BONN

Professor D. Cvetković
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11001 Belgrade
Yugoslavia

ABTEILUNG OPERATIONS RESEARCH
NASSESTRASSE 2
D-5300 BONN 1
TELEFON (0228) 739285/86
TELEX 886657 unibo d

Bonn, July 28, 1984.

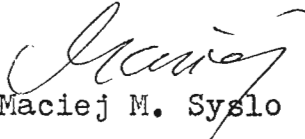
Dear Professor Cvetković:

Thank you for your letter of June 17, 1984 and your informations.
I wrote to dr. T. Pisanski regarding the 6-th Yugoslav Seminar
on Graph Theory and I hope to receive his replay in due time.
Meanwhile, I found in the library here a copy of the proceedings
of the 4-th Seminar. It contains several interesting /to me/ papers.
I am wondering if it is still possible to get it. May I propose
the following deal: In exchange for its copy I will send you a copy
of the proceedings of our meeting /see the enclosed flyer/. I should
be glad if it sounds to you enough interesting.

I look forward to hearing from you and then meeting you in October.

With kind regards,

Yours sincerely,


Maciej M. Syslo

P.S. I should appreciate receiving copies of all your papers on
using computers in graph theory. Thanks.

8. avgust 84.

Poštovani kolega Cvetkoviću

U prilogu Vam šaljem dva izveštaja o doktorskoj disertaciji Dragana Aekete. Prvi izveštaj je potpisao profesor Andras Recki, a drugi smo potpisali profesor Janez Ušan i ja. Ukoliko se slažete, molimo Vas da se svojim potpisom pridružite našem izveštaju. U protivnom, molimo Vas da nam javite Vaš stav po tom pitanju.

Srdačan pozdrav

Ratko Torić

Beograd, 17. 9. 1984.

Grafi kolego Tošić,

U prilogu su tri primerka izveštaja o temi

D. Adrete koje sam potpisao, uključujući u obzir sve okolnosti, sa strahom da je tema dobra a rad Adrete za pohvalu.

Čudi me alternativa koju postavljate u pisnu. Izveštaj Reckog je u saglasnosti sa drugim izveštajem. Njegova fraza "thesis should be accepted as a partial fulfillment of the requirements for a Ph.D." je, koliko je znam, uobicajena na ovakvim mestima za temu koja se prihvata jer kandidat zaista nije samo delimično ispunio uslove (on mora da položi usmeni deo, predvodi je morao da ima magistraturu, objavljene radove, eventualne izdane itd.). Bitno je da Recki, kao stručnjak koji se odlično bori tom oblašću, nije promenio neki veliki promodaj (što mi zado, posto se time ne baviš odlično, moramo morati da preidimo). Naravno, percipuelno kritika Reckog je dobrodošla. Kandidat treba da se pripremi da to konstatuje na usmenom odbranu. Naučno-istorijsku veću bi trebalo prezentirati i izveštaj Reckog i je podri-
sam i taj izveštaj (kao što potpisao jer nije odgovarajućoj frazi).

Do navedenih se može stići zbog
odsutnosti (od 5.8. do 8.8. misam bio u Beogradu),
Ja se T. m. konstatuje - odgovorom V. i
kolegi A. i.

So pozdravom

Dr. Branko Cvetković

1. 10. 1984, Novi Sad

INSTITUTE OF MATHEMATICS
UNIVERSITY OF NOVI SAD
21001 Novi Sad P. o. b. 224
Yugoslavia

Dragi kolega Cvetkoviću
Zahvaljujemo Vam na Vašem pismu
od 17. 9. U prilogu Vam šaljem ko-
piju izveštaja o doktorskoj diserta-
ciji Dragana Ačke sa potpisima
svih članova komisije.

Sa srdačnim pozdravom
Ratko Tošić

23.10.1984

Journal Europeen de Combinatoire


54 Boulevard Raspail
75270 Paris Cedex 06
France

Dear Sirs,

Please find enclosed herewith two copies of my paper
"Some graph invariants based on the eigenvalues of the adjacency
matrix". I would ask you most kindly to consider this paper
for publication in your journal.

With kind regards,

Yours sincerely


D. Cvetković

On October 23 I sent you my paper
with the kind request to consider
So far I have not ^{heard} received anything from you
I would ask you most kindly to confirm
the ...

23.10.1984

Dr.D. Potschke
Zentralinstitut für
Kybernetik und Informations-
prozesse AdW DDR
DDR 1088 Berlin
Kurzstr. 33

Dear Mr. Pötschke,

I would appreciate very much if you would be able to send me your papers related to eigenvalues of graphs and, in particular the paper: "Maximaler Eigenwert und R- Isomorphieklassen von endlicher Graphen."

I use this occasion to enclose a letter announcing an interactive programming system for graph theory.

With kind regards,

Yours sincerely,

D.Cvetković

Ljubljana, 23. 10. 84.

Dragi prof. Coetković!

Šaljem vam kopiju rada o spektru
beskončnih grafova koja je poslata za
prosidingse iz Eybe. Molim vas, ako je
možete dati A. Torgasëvu, kako bi i
te najnovije rezultate uključio u
rukopis vaše nove knjige.

Srdačnu pozdrav,

Božo Mlakar



the Continental card

profesor

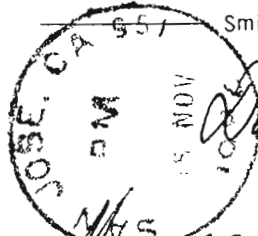
DRAGOŠ Cvetković

Elektrotehnički fakultet

Bulevar Revolucije 73

11000 Beograd

YUGOSLAVIA



Smith Novelty Co., 460-9th St., San Francisco, Calif. 94103

Dragi profesore
Mojgo poročanje iz Santa
Clare i veliko hvala za
prvo preporuke. Ukoliko
Vam ste zatreba a ja to
mogu da uradim, pozite
mi.

Drusan Jetic

A BIRDSEYE VIEW of San Francisco with the Golden Gate in the distance.

B10971-Color Photo: Andrew McKinney

©Mike Roberts Color Productions
Oakland, CA 94623

European Journal of Combinatorics

Journal Européen de Combinatoire

Europäische Zeitschrift für Kombinatorik



Copy

Edited by M. Deza, M. Las Vergnas, P. Rosenstiehl
540

54 Boulevard Raspail, 75006 Paris, France

tel: 544 03 49

Paris, November 21, 1984

Professor D. Cvetkovic
Faculty of Electrical Engineering
University of Belgrade
Bulevar Revolucije, 73
P.O. Box 816
11001 Belgrade

Dear Professor Cvetkovic

We acknowledge with pleasure the receipt of your paper
"Some graph invariants based on the eigenvectors of the
adjacency matrix"

We are considering it for publication. As soon as we
get reports from referees we will write to you.

Thanking you for your kind collaboration.

Sincerely yours

M. Las Vergnas

Beograd 17.12.1984.

Dragi Ivane,

Šaljem Ti listing bibliografije sa još
knjigu i spisak pravaca u svakom po-
jedincu referenci.

Konstiram ovu priliku da Ti iznesem
još nekoliko misli u vezi sa projektom "Dis-
kretna matematika i njene primene u kom-
pjuterskim sistemima". Toj udruženju stvarno mi
se čini neprocedurinom u ovom momentu po-
ću pokušati da Ti složim motive koji se na-
loze na tebe.

Površnom ili skraćivanom posmatranju
ova moja aktivnost, u istorijama kada se uvek
sredstva za matematička i druge fundamental-
no istraživanja mala, može da izgleda kao
frivola i jedna prikrivena želja da imam "svoj"
projekt. Istina, jednom uvek uvek misleć
seminaru, ili matematičaru uopšte, može da izgleda
sposobno i relevantno da li će se moći roditi
provoci kroz projekt koji se zove "Algebra"
ili "Diskretna matematika" ili bilo šta treće.

Međutim, kada formiramo evaluog projekta
može da dovede do svoje lične dalje afirmacije
(mada ne mora a priori značiti da će je biti

rukovodilec tog projekta), ja imam u vidu rasne delokosešnije ciljeve koji nisu samo lični interesi (kao i, Toopi, pauc koje se bori Thompson profovo odnosno Distrikom matematikom).

Da bi se popravio položaj fundamentalnih nauka i odnos društva prema njima (što je u dugoročnom smislu neophodno i uslov opstanka društva) moraju se u odgovarajućem trenutku formulirati društveni ciljevi o istraživanju u fundamentalnim naukama (Ali društvo, tj. političari, vide šta neposrednije društvo istraživanja u fund. naukama pruža menice odnos), u tom smislu projekti 12 matematike, gde svako radi šta hoće a to se administrativno podvodi pod neke projekte koji su formirani prema trenutnom uticaju pojedinaca, ne doprinose budućoj etniciteti.

Formulisanje društvenih ciljeva za matematičko istraživanje je neophodno i zbog odnosa sa drugim tehničkim i drugim primerenim strukama. Profesorima tehničkih struka na Elektrotehničkom fakultetu je u dovoljnim uslovima lako

da pribave sućija sredstva od privrede, vojске itd. Oni pod firmom inženjerske nauke rešavaju, u većini slučajeva, retinške stvari za velike pare. Time se i upotreba nauka unazoduje a razorno destimulirajuće deluju na one koji bi imali volje i snaga da se bave fundamentalnim stvarima. Uz to, ti projekti su pod kontrolom pojednaca tj. se prolaze kroz naučnomostorno reće, što omogućava vršne manipulacije. Uzgred to napomenem da je glavačinu Simić jednim honorarom od pet miliona mesečno "ubediti" da se ne bavi više teorigom fizike.

Dakle, ako se prihvatiti da postoji potreba formulisanja prioriteta ciljeva fundamentalnih istraživanja onda je za matematičku nauku svake zemlje jedan od pet glavnih ciljeva Distribucija matematičke.

Živimo u vreme kada se veruje da će kompjuteri (talibomca) ubrzo u naš život doći i početi veseliti pomoću kompjutera. Međutim u kompjuterstvu naučnima nema izvoda i integrala jer su kompjuteri mašine

diskretnog dejstva sa brojevnim brojem u-
nutrašnjih stepena; dakle, seleovutno mate-
matika je matematika no brojevnim str-
porima tj. kombinatorko ili Diskretno
matematika.

Na suprot očitim potrebama naša na-
cuna se, pa se drastično izrazim, napustila
u oblasti Diskretno matematike. Nije mi čudo
jer je slično mi je tome način, diskretno ma-
tematika je neodoljivo zastupljena u
nostalno na svim nivoima. Evo par pri-
mera iz mog iskustva. Kandidat broji mo-
gustvima rod iz tehničkih nauka a u ma-
slonu roda se pojavljuje prazan stablo.
Na molbu da uvede definiciju stabla (kao
primer, stablo je povezani graf bez kružnog)
kandidat izbegava odgovor nevoljki to znači
zato što je stablo i do te mere što do te de-
finicije. U drugom primeru, definicijom i
nivoim rodne k. traži svoj broj i kao pri-
redno vreme da utvrdi kompleksnost jednog
algoritma eksperimentalno pri čemu se kom-
pleksnost može odrediti krajnji jednostavnim
tehnikama kombinatorkog računanja.

-Ali se prethodni navodi potvrde kao
fašisti (a ja sam rekao da jesu) onda mi,
koji se inače uspješno bavimo Tomijem pravom
i srodnim oblastima, imamo iruzetnu osnovu
jer se naše ideje i interesi poklapaju sa
strukturnim potrebama.

U ovom slučaju nešto sam kao čestit
komunist, sućao savršene komunističke
-sveobuhvatne i praktične značenje.
(Pravna monoprotive od širih značenja,
na voj softvera, uticaj na nastavu)
a onda su privedu tek u drugom planu
(kada je to postalo neki ciljevi nepobudno
i objektivno odredba). Primeri: komunistički
ciljevi kakve namu u ruku: prava naše
organizacije o tehnologiji isto je postignu to ljudskom
odnosu čitavi kapacitet, naše i savremena
korpora "kombinacija - klasično i usduku"
kao udvo i klasi i struže, implementacije
pripravnog sistema "Graf", sl. Sve su to
stvari nedostupne domaćim jedinim čoveku
u našoj ovoj projekta formiraju se klase
za različite pojedinih varijabilni, komunistički

problema u okviru zajedničkih interesa.
(Na izdost, uprkos činjenici da se Semunović
i Temnić profinno sastaju već treću školsku
godinu, mogu se navesti neverovatni
primeri nesaradnje koje je no ovim
štetu).

U okviru projekta, koji bi pred nos
petnaestak koji su dolazili na seminar
obuhvatio još nekoliko dobro druzgih kolega
sa srodnih struka, muso bi uvesti neke po-
zitivne efekte. Bilo bi prezentacijom resul-
tata (što je do sada zanemareno, od dobre volje
jednog članstva - Čovićić) predali bi u glavu
u dobijanje većih sredstava i povećali
bi nađe mladih kolega u mogućnost bor-
beno-fundamentalnim istraživanjima. Bilo bi
i prezentacije projekta bi ~~prezentacije~~
~~trava polje~~ ulazila na svoj distributiv
u akvizicije. U pravljanje daljih sredstava
koji se ne isplacuju nesuicidno omogućilo bi
postizanje većih efekata (kupovina literature,
troubu kojim je itd.).

Šteta je putanje da li se to može postići
(Ti u ovom slučaju to sam je slab da
do sada sprovedem), sa tim se oporukom sle-

žem. Ili ostaneu usoudjen. Ili se
Ti pridružiš (iđi eventualno zajedno ili
dvojica kolege) i sa se na uspeh su velike.

Nosi do sadašnji rezultati (mislim no to je
i uspeh i ne pđi par kolege) su tako izrazito
netipični da su o apsolutno kvantif. nivou
za vredenje trajnog projekta. (Kvintologom,
mnogo je primena potrebosti ljudi i ljudi
je uspeh rezultata se govori trajno ote
velikom sadržajem). Čim to, a veliki dru-
štveni kontekst projekta su vrlo relevantni.

Dobro je osuđiti da se pitaje uspeha samo
pitaje d. govora i promišljane i unbr-
zavane akcije nos rehabilitane.

Da nam bi stvaranje trajnog projekta
grupa značilo se bi povećalo motivaciju
stvaranja i unbr. sadržaji (projekte usuo-
fratne, razvoj softvera) koje se se teže
možn realizovati bez trajnog rada. Veru-
jem da bi, Tibi projekt ponuđen je i Ti se
želiš da nevoj sadržaja, motivacij da predes
u Beograd ili New York itd. Doduše Tvoja aktiv-
nost kao leuicera možda ide u nekoj
dru form praven ali Ti si toliko inaktiviran

da ne misliš da istegneš udubljivanje u ovu problematiku tiam pre što ne verujem da sve ovo može da Ti šteti kao hemionu.

Projekt bi mogao da bude podržan i produžen sistemom "Graph" što je sada vrlo povoljno. (Predlog da se gleda o sistemu "Graph" koji je u stvari poslat).
Naravno, misles se tuu "Graph" ka ti

stoji ali da zbog ovog odaska u New Yorku i odsutnosti iz Beograda ne misliš ništa po sebi da učiniš. Je bilo Te molio da praviš projekat o o pituu o telst predlog projekta. Tu me obavesti o svom mišljenju. Toja podrška projektu izraeno no bilo bi na način kao primer, jednini. Jednom na istu adresu no koje sam ja prošao i malo. velik značaj.

Se pozdravom

Stojan



Prof D. Cvjetkovic

27 Dec 84

Dear Dragoš, ^{by airmail}
Please send me (at my usual
Michigan address) a copy in English
of the book you wrote in which
you teach graph theory to beginning
university students entirely by means
of matrices.

Thank you very much indeed,
I appreciate this favor.

Happy New Year to your family,
Frank Harary



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P.S. Please, send me a copy of the following papers of yours, if you have them available

- Über ein Problem von Erdős, Univ. Beograd, Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. 247-273 (1969), 143-147
- The generating function for variations with restrictions and paths of the graph and self-complementary graphs. Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. 320-328 (1970), 27-39
- Evaluation of a lower bound for the chromatic number of the complete product of graphs, Univ. Beograd, Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. 357-380 (1971) 63-68

Prof. J.J. Seidel
Eindhoven University of Technology
Department of Mathematics
POB 513
MB 5600 Eindhoven

Dear Mr. Seidal,

Thank you for your recent letter. I am really very sorry to hear that your father has died. As a small consolation, may I remind you that you were afraid of such an event during your stay in Yugoslavia in 1976. However, your father lived almost eight years after that.

Thank you for considering my wish to come to Eindhoven. I was aware in advance that there will be difficulties in carrying that in the summer time. Some other reasons force me also to return to Yugoslavia after Oberwolfach Conference. Other plans are now more or less fixed: August 6-18. Lake Bled(Holiday), August 18-September 30: London(joint work with Doob), October 1-6, Saalfeld,GDR(Graph Theory Conference).

I would accept with great pleasure your suggestion to pass by for me one or two days in Eindhoven. It seems that the end of September is the best term to do that (when going from England to GDR). Anyhow, I shall write to you from England.

Kind regards,

Yours sincerely

D.Cvetković

Memorandum

Naam:

Dear Drago

Datum:

Gesproken met:

Onderwerp:

Thanks for your letter. Here is my program for this year: I'll be in Eindhoven, a.o. preparing my farewell-address, until August 3. Beginning of September Ada + I leave for a big holiday; we will be in Le Mans 6-11 Sept, Coimbra (Portugal) first week of October, and home (again) October 12. So the end of September does not fit me.

However, perhaps others are as interesting, f.i. van Lint, Bussema, Willink, Polakhuis, vT, lbug. See what you can do. Regards

Jerdel

Memorandum

Naam: _____

Datum: _____

Gesproken met: _____

Onderwerp: _____

P.S. A. Torgašev submitted
name his manuscript
"On infinite graphs with the property
 $\lambda(G) = -2$ "

I have asked him to send me
his papers [6] and [7] on which his
results are based. I am not
certain that Torgašev's methods
are the right ones; I prefer those
of B. Mohar. Any comments?

Probably I owe to you the fact
that I received the Novi-Sad
volume on graph theory. Thank
you very much. Frans Buesse-

maker has send back
a copy of the
Tables on Two-graphs
to the Novi Sad Library.

Kind regards

~~JS~~

Prof. D. Cveticović
Faculty Electr. Engin.
Univ. Belgrade
P.O. Box 816
11001 Belgrade - Yugoslavia

Dear Drago,

Thank you for your letter of 12-3-1984.
There has been some delay in this answer.
One of the reasons is that my father died
at the age of 92. He has been very weak
this last year; he just was at the end of his forces.

Your question is a difficult one. First,
from the end of June till the end of
August is a bad period for a visit
since usually people are on a holiday
or take it easy at home. Second, as
far as I am concerned, I will be retired
this summer, and my power inside
the department comes to an end.
Thirdly, although we originally had the
plan to stay home this summer (and
go for a vacation in September when all
others start working), mainly in relation
with my old father, we now have
not made up our mind yet. It is
a bit too early for us to decide.

It is sad to mention, but also Bussemak
lost his father these days, and I have
not yet asked him about his plans.
However, in view of his children I
am afraid that there will be a good
chance that he will be away.
As for van Lint, he belongs to the category

of the people who will take it easy
and do some work at home, ~~if~~
less he is ~~not~~ traveling.

So I really do not know what to
answer you. I will not go to this Graph
week in Oberwolfach. I was invited, but things
were too uncertain and I decided not to
come.

Perhaps you should just "pass by" for one
or two days in Eindhoven (for the
rest of Holland it is a bad period as well).
If I know your plans, perhaps I can take
them into account. I wonder how things
are in England!

You may know that I visited Horst Sachs
in Garmen in December! I went by
car; it is not that far away. We had a
good time; I gave many many lectures
and met various people. Horst will now
be in Canada, probably.

I hope that this letter is not too
disappointing to you. But I thought I better
tell you how things are. And I gave
you the latest news. If there are
changes then I will let you know.

Kind regards from Ada
and to Zora and Meaden

Jaap Seidel