

Naučni radovi – Scientific papers

1. Cvetković D., *O rešavanju nekih transcendentnih jednačina*, Matematička biblioteka br. 39, Beograd 1969, 111-123
RŽ Mat 1970, 10B676.
2. Cvetković D., *O sumiranju redova čiji je opšti član racionalna funkcija indeksa sumiranja*, Matematička biblioteka br. 41, Beograd 1969, 157-178.
RŽ Mat 1970, 12B30.
3. Cvetković D., *Bihromatičnost i spektar grafa*, Matematička biblioteka br. 41, Beograd 1969, 193-194.
RŽ Mat 1970, 12V364.
4. Cvetković D., *Über ein Problem von Erdős*, Univ. Beograd, Publ. Elektrotehn. Fak. Ser. Mat. Fiz., No. **247**-No. **273**(1969), 143-147.
MR 40, # 5473, **Zbl.** 182, 267, **RŽ Mat** 1970, 3V299.
5. Cvetković D., *Spectrum of the graph of n -tuples*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No. **274**-No. **301**(1969), 91-95.
MR 41, # 6711, **Zbl.** 212, 296, **RŽ Mat** 1970, 9V295.
6. Cvetković D., *Connectedness of the p -sum of graphs*, Univ. Beograd, Publ. Elektrotehn. Fak. Ser. Mat. Fiz., No. **274**-No. **301**(1969), 96-99.
MR 41, # 6710, **Zbl.** 212, 295, **RŽ Mat** 1970, 6V371.
7. Cvetković D., *Some remarks on the problem of n queens*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No. **274**-No. **301**(1969), 100-102.
MR 41, # 8250, **Zbl.** 215, 339, **RŽ Mat** 1970, 8V231.
8. Cvetković D., *A note on paths in the p -sum of graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No. **302**-No. **319**(1970), 49-51.
MR 44, # 2648, **Zbl.** 203, 567, **RŽ Mat** 1971, 6V353.
9. Cvetković D., Lučić R., *A new generalization of the p -sum of graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz. No. **302**- No. **319**(1970), 67-71.
MR 45, # 8557, **Zbl.** 209, 282, **RŽ Mat** 1971, 6V354.
10. Cvetković D., *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**-No. **328** (1970), 27-34.
MR 43, # 7356, **Zbl.** 204, 245, **RŽ Mat** 1971, 9V357.
11. Cvetković D., *Transzendente Gleichungen deren Lösungen durch die*

inversen Funktionen der Funktion e^x/x ausdrückbar sind, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Math. Fiz., No. **320**-No. **328** (1970), 15-26.
MR 43, # 4239, **Zbl.** 214, 148, **RŽ Mat** 1971, 7B8.

12. Cvetković D., *New characterizations of the cubic lattice graph*, Publ. Inst. Math. (Beograd), **10(24)**(1970), 195-198.
MR 43, # 1869, **Zbl.** 202, 557, **RŽ Mat** 1971, 6V374.

13. Cvetković D., *Die Zahl der Wege eines Grafen*, Glasnik Mat. Ser III, **5(25)**(1970), 205-210.
MR 43, # 108, **Zbl.** 211, 572, **RŽ Mat** 1971, 6V371.

14. Cvetković D., *The Boolean operations on graphs - spectrum and connectedness*, (V Kongres na mat. fiz. i astr. na Jugoslavija, Ohrid, 14-19 sept. 1970, Zbornik na trudovite, tom I, Skopje 1973), 115-119.
MR 57, # 12298, **RŽ Mat** 1979, 8V383.

15. Cvetković D., *Graphs and their spectra (Thesis)*, Univ. Beograd, Publ. Elektrotehn. Fak. Ser. Mat. Fiz., No. **354**-No. **356**(1971), 1-50.
MR 45, # 8556, **Zbl.** 238, 05102, **RŽ Mat** 1972, 10V358.

16. Cvetković D., *The spectral method for determining the number of trees*, Publ. Inst. Math. (Beograd), **11(25)**(1971), 135-141.
MR 46, # 8877, **Zbl.** 221, 05054, **RŽ Mat** 1972, 2V355.

17. Cvetković D., *Inequalities obtained on the basis of the spectrum of the graph*, Studia Sci. Math. Hung., **8**(1973), 433-436.
MR 50, # 9661, **Zbl.** 288, 05107, **RŽ Mat** 1975, 1V563.

18. Kraus L., Cvetković D., *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**-No. **380**(1971), 63-68.
MR 45, # 6679, **Zbl.** 236, 05104, **RŽ Mat** 1972, 12V206.

19. Cvetković D., *On a graph theory problem of M. Koman*, Časopis Pěst. Mat., **98**(1973), 233-236.
MR 48, # 1994, **Zbl.** 262, 05134, **RŽ Mat** 1974, 1V327.

20. Cvetković D., Gutman I. *The algebraic multiplicity of the number zero in the spectrum of a bipartite graph*, Mat. Vesnik **9(24)**(1972), 141-150.
MR 48, # 1993, **Zbl.** 263, 05125, **RŽ Mat** 1973, 3V377.

21. Kraus L., Cvetković D., *Tables of simple eigenvalues of some graphs whose automorphism group has two orbits*, Univ. Beograd, Publ. Elek-

- trotehn. Fak., Ser. Mat. Fiz., No. **381**-No. **409**(1972), 89-95.
MR 48, # 8297, **Zbl.** 255, 05114, **RŽ Mat** 1973, 7V377.
- 22.** Cvetković D., *The number of antichains of finite power sets*, Publ. Inst. Math. (Beograd), **13**(**27**)(1972), 5-9.
MR 49, # 69, **Zbl.** 266, 05004, **RŽ Mat** 1973, 6V322.
- 23.** Cvetković D., Gutman I., Trinajstić N. *Graph theory and molecular orbitals II*, Croat. Chem. Acta, **44**(1972), 365-374.
- 24.** Cvetković D., Gutman I., Trinajstić N. *Kekulé structures and topology*, Chem. Phys. Letters, **16**(1972), 614-616.
- 25.** Cvetković D., *Chromatic number and the spectrum of a graph*, Publ. Inst. Math. (Beograd), **14**(**28**)(1972), 24-38.
MR 55, # 7826, **Zbl.** 271, 05111, **RŽ Mat** 1973, 12V408.
- 26.** Cvetković D., Lučić R., *Über die Zerlegung eines Graphen in ein Produkt von Graphen*, (XVIII Internationales Wissenschaftliches Kolloquium, Ilmenau 1973), 57-58.
Zbl. 281, 05114, **RŽ Mat** 1974, 5V387.
- 27.** Cvetković D., *Spectrum of the total graph of a graph*, Publ. Inst. Math. (Beograd), **16**(**30**)(1973), 49-52.
MR 52, # 5483, **Zbl.** 274, 05118, **RŽ Mat** 1974, 9V424.
- 28.** Cvetković D., Simić S. *On enumeration of certain types of sequences*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No. **421**- No. **460**(1973), 159-164.
MR 48, # 5875, **Zbl.** 281, 05004, **RŽ Mat** 1974, 3V329.
- 29.** Cvetković D., Gutman I., Trinajstić N., *Graph theory and molecular orbitals VII, The role of resonance structures*, J. Chem. Phys., **61**(1974), 2700-2706.
- 30.** Cvetković D., Gutman I., Trinajstić N., *Graph theory and molecular orbitals IX, On the stability of cata-condensed hydrocarbons*, Theoret. Chem. Acta(Berl.), **34**(1974), 129-136.
- 31.** Cvetković D., Gutman I., *Kekulé structures and topology II, Cata-condensed systems*, Croat. Chem. Acta **46**(1974), No. **1**, 15-23.
- 32.** Cvetković D., Simić S., *Some remarks on the complement of a line graph*, Publ. Inst. Math. (Beograd), **17**(**31**)(1974), 37-44.
MR 51, # 5406, **Zbl.** 295, 05119, **RŽ Mat** 1975, 6V490.

- 33.** Cvetković D., Simić S., *Graph equations for line graphs and total graphs*, Discrete Math., **13**(1975), 315-320.
MR 53, # 7859, **Zbl.** 315, 05126, **RŽ Mat** 1976, 5V548.
- 34.** Cvetković D., Gutman I., Trinajstić N., *Conjugated molecules having integral graph spectra*, Chem. Phys. Letters, **29**(1974), 65-68.
- 35.** Cvetković D., Gutman I., Trinajstić N., *Graphical studies on the relations between the structures and reactivity of conjugated systems, The role of non-bonding molecular orbitals*, J. Mol. Struct., **28**(1975), 289-303.
- 36.** Cvetković D., Gutman I., *On the spectral structure of graphs having the maximal eigenvalue not greater than two*, Publ. Inst. Math. (Beograd), **18(32)**(1975), 39-45.
MR 54, # 5049, **Zbl.** 307, 05132, **RŽ Mat** 1975, 10V281.
- 37.** Gutman I., Cvetković D., *The reconstruction problem for characteristic polynomials of graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz, No. **498**-No. **541**(1975), 45-48.
MR 53, # 13043, **Zbl.** 318, 05111, **RŽ Mat** 1976, 5V542.
- 38.** Cvetković D., *The determinant concept defined by means of graph theory*, Mat. Vesnik, **12(27)**(1975), 333-336.
MR 54, # 2534, **Zbl.** 355, 15010, **RŽ Mat** 1976, 8V539.
- 39.** Cvetković D., *Definities en berekening van determinanten met behulp van grafen*, Nieuw Tijdschrift Wisk. **63**(1976), No. **4**, 209-215.
MR 54, # 10066, **RŽ Mat** 1976, 10V435.
- 40.** Cvetković D., *Spectra of graphs formed by some unary operations*, Publ. Inst. Math. (Beograd), **19(33)**(1975), 37-41.
MR 58, # 21837, **Zbl.** 337, 05140, **RŽ Mat** 1976, 9V402.
- 41.** Cvetković D., Lacković I., Simić S., *Graph equations, graph inequalities and a fixed point theorem*, Publ. Inst. Math. (Beograd), **20(34)**(1976), 59-66.
MR 57, # 178, **Zbl.** 344, 05160, **RŽ Mat** 1977, 7V538.
- 42.** Cvetković D., *Cubic integral graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No. **498**-No. **541**(1975), 107-113.
MR 53, # 13038, **Zbl.** 315, 05125, **RŽ Mat** 1976, 3V570.
- 43.** Bussemaker F. C., Cvetković D., *There are exactly 13 connected, cubic, integral graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz.,

- No. 544-No. 576(1976), 43-48.
MR 57, # 5830, **Zbl.** 357, 05064, **RŽ Mat** 1977, 11V576.
44. Bussemaker F. C., Čobeljić S., Cvetković D., Seidel J. J., *Computer investigation of cubic graphs*, Technological University Eindhoven, T. H. - Report 76-WSK-01, 1-66.
Zbl. 322, 05144, **RŽ Mat** 1977, 7V1005.
45. Bussemaker F. C., Čobeljić S., Cvetković D., Seidel J. J., *Cubic graphs on ≤ 14 vertices*, J. Combinatorial Theory (B), **23**(1977) 234-235.
MR 58, # 5354, **Zbl.** 369, 05045, **RŽ Mat** 1978, 10V694.
46. Bussemaker F. C., Cvetković D., Seidel J. J., *Graphs related to exceptional root systems*, Technological University Eindhoven, T. H. -Report 76-WSK-05, 1-91.
Zbl. 338, 05116, **RŽ Mat** 1977, 7V514.
47. Bussemaker F. C., Cvetković D., Seidel J. J., *Graphs related to exceptional root systems*, (Combinatorics, Proc. V Hungarian Colloquium on Combinatorics, Keszthely 1976, ed. A. Hajnal, V. T. Sós, Vol. I, Amsterdam-Oxford-New York 1978), 185-191.
MR 80g: 05049, **Zbl.** 392, 05055, **RŽ Mat** 1979, 10V381.
48. Cvetković D., Lint J. H. van, *An elementary proof of Lloyd's theorem*, Proc. Kon. Ned. Akad. v. Wet. A, **80**(1)(1977), 6-10.
MR 55, # 7574, **Zbl.** 349, 94023, **RŽ Mat** 1977, 10V441.
49. Cvetković D., Gutman I., *Note on branching*, Croat. Chem. Acta, 49(1977), 115-121.
50. Cvetković D., Simić S., *Graph equations*, (Beiträge zur Graphentheorie und deren Anwendungen, vorgetragen auf dem Internat. Koll. Oberhof (DDR), 10. -16. April 1977), 40-56.
MR 82b: 05110, **Zbl.** 409, 05048.
51. Cvetković D., Simić S., *Graphs which are switching equivalent to their line graphs*, Publ. Inst. Math. (Beograd), **23**(37)(1978), 39-51.
MR 80c: 05108, **Zbl.** 423, 05035, **RŽ Mat** 1979, 3V594.
52. Cvetković D., *The main part of the spectrum, divisors and switching of graphs*, Publ. Inst. Math. (Beograd), **23**(37) (1978), 31-38.
MR 80h: 05045, **Zbl.** 423, 05028, **RŽ Mat** 1979, 4V439.
53. Doob M., Cvetković D., *On spectral characterizations and embedding of*

- graphs*, Linear Algebra and Appl., **27**(1979), 17-26.
MR 81d: 05050, **Zbl.** 417, 05025.
- 54.** Cvetković D., Gutman I., Simić S., *On self pseudo-inverse graphs*, Univ. Beograd, Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. **602**-No. **633**(1978), 111-117.
MR 81j: 05088, **Zbl.** 437, 05047, **RŽ Mat** 1980, 11V511.
- 55.** Cvetković D., *Some possible directions in further investigation of graph spectra*, (Algebraic Methods in Graph Theory, Vol. I, ed. L. Lovász, V. T. Sós, North Holland, Amsterdam-Oxford- New York, 1981), 47-67.
MR 83b: 05090, **Zbl.** 471, 05043, **RŽ Mat** 1982, 3V533.
- 56.** Cvetković D., Simić S., *A bibliography of graph equations*, J. Graph Theory, **3**(1979), No. 4, 311-324.
MR 80j: 05054, **Zbl.** 423, 05038.
- 57.** Cvetković D., *Some topics from the theory of graph spectra*, Berichte der Mathematisch-Statistischen Sektion im Forschungszentrum Graz, No. **100**-No. **105**(1978), No. 101, 1-5.
MR 80m: 05082, **Zbl.** 404, 05044, **RŽ Mat** 1979, 9V374.
- 58.** Cvetković D., Doob M., Simić S., *Some results on generalized line graphs*, Comptes Rendus Math. Rep. Acad. Sci. Canada, **2**(1980), No. 3, 147-150.
MR 81f: 05136, **Zbl.** 434, 05057, **RŽ Mat** 1981, 11V565.
- 59.** Cvetković D., Doob M., Simić S., *Generalized line graphs*, J. Graph Theory, **5**(1981), No. 4, 385-399.
MR 82k: 05091, **Zbl.** 475, 05061, **RŽ Mat** 1982, 6V618.
- 60.** Gutman I., Cvetković D., *Relations between graphs and special functions*, Univ. Kragujevac, Coll. Sci. Papers, Fac. Sci., **1**(1980), 101-119.
- 61.** Cvetković D., *A note on constructions of graphs by means of their spectra*, Publ. Inst. Math. (Beograd), **27**(**41**)(1980), 27-30.
MR 83a: 05095, **Zbl.** 478, 05015, **RŽ Mat** 1981, 9V497.
- 62.** Cvetković D., *A project for using computers in further development of graph theory*, (The Theory and Applications of Graphs, Proc. 4th Internat. Conf. Theory and Appl. of Graphs, Kalamazoo 1980, ed. G. Chartrand, Y. Alavi, D. L. Goldsmith, L. Lesniak-Foster, D. R. Lick, John Wiley & Sons, New York - Chichester - Brisbane - Toronto - Singapore, 1981), 285-296.
MR 82k: 68035, **Zbl.** 468, 05070.

- 63.** Cvetković D., Gutman I., *A new spectral method for determining the number of spanning trees*, Publ. Inst. Math. (Beograd), **29(43)**(1981), 49-52.
MR 83f: 05046, **Zbl.** 493, 05033, **RŽ Mat** 1982, 8V553.
- 64.** Cvetković D., Kraus L., Simić S., *Discussing graph theory with a computer I, Implementation of graph theoretic algorithms*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No. **716** - No. **734**(1981), 100-104.
RŽ Mat 1982, 4V1079.
- 65.** Cvetković D., Cvetković Z., *Jedna modifikacija Coatesove metode za analizu električnih kola*, (XXV jug. konferencija ETAN-a, Mostar 1981, sv. I), 303-308.
- 66.** Stojković V., Cvetković D., *Analiza pomoću računara rečenica dela engleskog jezika formalizovanog za upotrebu u teoriji grafova*, (XXV jug. konferencija ETAN-a, Mostar 1981, sv. III), 271-278.
- 67.** Cvetković D., *Prevodjenje matematičkog teksta na jezik formula kvantifikatorskog računa*, (Informatica 81, Ljubljana 1981, 3 108), 1-3.
- 68.** Cvetković D., Pevac I., *Generisanje rečenica ekvivalentnih zadatoj rečenici*, (Informatica 81, Ljubljana 1981, 3 107), 1-3.
- 69.** Cvetković D., *Discussing graph theory with a computer II, Theorems suggested by the computer*, Publ. Inst. Math. (Beograd), **33(47)**(1983), 29-33.
MR 85e: 05151, **Zbl.** 522, 05068, **RŽ Mat** 1984, 3V615.
- 70.** Cvetković D., Doob M., Gutman I., *On graphs whose eigenvalues do not exceed $\sqrt{2 + \sqrt{5}}$* , Ars Combinatoria, **14**(1982), 225-239.
MR 84i: 05076, **Zbl.** 504, 05040.
- 71.** Cvetković D., Doob M., *Root systems, forbidden subgraphs and spectral characterizations of line graphs*, (Graph Theory, Proc. Fourth Yugoslav. Sem. Graph Theory, Novi Sad, April 15. - 16. 1983, ed. D. Cvetković, I. Gutman, T. Pisanski, R. Tošić, University of Novi Sad, Institute of Mathematics, Novi Sad 1984), 69-99.
MR 86a: 05088, **Zbl.** 533, 05041, **RŽ Mat** 1984, 8V466.
- 72.** Cvetković D., *On graphs whose second largest eigenvalue does not exceed 1*, Publ. Inst. Math. (Beograd), **31(45)**(1982), 15-20.
MR 85d: 05168, **Zbl.** 522, 05044, **RŽ Mat** 1983, 9V550.

- 73.** Cvetković D., Cvetković Z., *Analiza aktivnih mreža sa operacionim pojačavačima metodom teorije grafova*, (Zbornik materijala XXVI jug. konf. ETAN-a, Subotica 7. -10. 6. 1982, Beograd 1982, sv. I), 257-262.
- 74.** Cvetković D., Ćipranić M., *Interaktivni programski sistem za manipulaciju sa rečenicama*, (Zbornik materijala XXVI jug. konf. ETAN-a, Subotica 7. -10. 6. 1982, Beograd 1982, sv. III), 263-269.
- 75.** Cvetković D., Pevac I., *Discussing graph theory with a computer III, Man-machine theorem proving*, Publ. Inst. Math. (Beograd), **34(48)**(1984), 37-47.
MR 86i: 03012a, **Zbl.** 568, 05053.
- 76.** Gutman I., Cvetković D., *Finding tricyclic graphs with maximal number of matchings - another example of computer aided research in graph theory*, Publ. Inst. Math. (Beograd), **35(49)**(1984), 33-40.
MR 86k: 05065, **Zbl.** 561, 05043, **RŽ Mat** 1985, 7V693.
- 77.** Cvetković D., Pevac I. *Some heuristics in automatic theorem proving*, Publ. Inst. Math. (Beograd), **35(49)**(1984), 167-171.
MR 86e: 68091, **Zbl.** 585, 68080, **RŽ Mat** 1985, 6G484.
- 78.** Cvetković D., *Discussing graph theory with a computer IV, Knowledge organization and examples of theorem proving*, (Graph Theory, Proc. Fourth Yugoslav. Sem. Graph Theory, Novi Sad, April 15. -16. 1983, ed. D. Cvetković, I. Gutman, T. Pisanski, R. Tošić, University of Novi Sad, Institute of Mathematics, Novi Sad 1984), 43-68.
MR 86i: 03012b, **Zbl.** 533, 05058, **RŽ Mat** 1984, 9V534.
- 79.** Jovanović M., Cvetković D., Kraus L. *Discussing graph theory with a computer V, Graph theory bibliography*, (Razgovor sa kompjuterom o teoriji grafova V, Bibliografija teorije grafova), XXXI jug. konf. ETAN-a, Bled 1987, VIII sv., ETAN, Beograd 1987, 273-278.
- 80.** Cvetković D., Petrić M. *A table of connected graphs on six vertices*, Discrete Math., **50**(1984), No. **1**, 37-49.
MR 85d: 05133, **Zbl.** 533, 05052, **RŽ Mat** 1984, 12V726.
- 81.** Cvetković D., *Spectral characterizations of line graphs. Variations on the theme*, Publ. Inst. Math. (Beograd), **34(48)** (1984), 31-35.
MR 86c: 05088, **Zbl.** 551, 05054.
- 82.** Cvetković D., Radosavljević Z., *A construction of the 68 connected regular graphs, non-isomorphic but cospectral to line graphs*, Graph Theory,

Proc. Fourth Yugoslav. Sem. Graph Theory, Novi Sad, April 15.–16. 1983, ed. D. Cvetković, I. Gutman, T. Pisanski, R. Tošić, University of Novi Sad, Institute of Mathematics, Novi Sad 1984, 101-123.

MR 86d: 05083, **Zbl.** 531, 05044, **RŽ Mat** 1984, 9V503.

83. Batagelj V., Cvetković D., Gutman I., *A formula involving the number of 1-factors in a graph*, Graph Theory, Proc. Fourth Yugoslav. Sem. Graph Theory, Novi Sad, April 15.-16. 1983, ed. D. Cvetković, I. Gutman, T. Pisanski, R. Tošić, University of Novi Sad, Institute of Mathematics, Novi Sad, 1984, 39-42.

MR 85h: 05087, **Zbl.** 532, 05047, **RŽ Mat** 1984, 7V459.

84. Cvetković D., Pevac I., *Algorithms for transforming first order formulas in their natural form*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat. Fiz., No. **735**-No. **762**(1982), 155-160

MR 86g: 03023, **Zbl.** 543, 68075.

85. Cvetković D., Pevac I., *Man-machine theorem proving in graph theory*, Artificial Intelligence, **35**(1988), No. 1, 1-23.

MR 89h: 68130, **Zbl.** 646, 68107.

86. Cvetković D., Petric M., *Connectedness of the non-complete extended p -sum of graphs*, Rev. Res. Fac. Sci. Univ. Novi Sad, **13**(1983), 345-352

MR 86h: 05076, **Zbl.** 569, 05025, **RŽ Mat** 1985, 9V603.

87. Cvetković D., *Some graph invariants based on the eigenvectors of the adjacency matrix*, Presented at the Fifth Yugoslav Seminar on Graph Theory, Beograd, 1984, Graph Theory, Proc. Eighth Yugoslav Seminar on Graph Theory, Novi Sad, April 17-18, 1987, ed. R. Tošić, D. Acketa, V. Petrović, R. Doroslovački, Univ. Novi Sad, Institute of Mathematics, Novi Sad, 1989, 31-42.

MR 90h: 05002, **Zbl.** 696, 05036, **RŽ Mat** 1991, 8V449.

88. Cvetković D., Radosavljević Z., *A table of regular graphs with at most 10 vertices*, Graph theory, Proc. VI Yugoslav Seminar on Graph Theory, Dubrovnik, April 18-19, 1985, ed. R. Tošić, D. Acketa, V. Petrović, University of Novi Sad, Institute of Mathematics, Novi Sad, 1986, 71-105.

Zbl. 612, 05037, **RŽ Mat** 1987, 12V371.

89. Cvetković D., *Further experiences in computer aided research in graph theory*, Graphs, Hypergraphs and Applications, Proc. Conf. Graph Theory held in Eyba, October 1984, ed. H. Sachs, Teubner, Leipzig, 1985, 27-30

Zbl. 593, 05001, **RŽ Mat** 1987, 7V620.

- 90.** Cvetković D., Doob M., *Developments in the theory of graph spectra*, Linear and Multilinear Algebra, **18**(1985), 153-181.
MR 87f: 05111, **Zbl.** 615, 05039.
- 91.** Cvetković D., Jovanović A., Radosavljević Z., Simić S., *Coplanar graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **2**(1991), 67-81.
MR 92m: 05066, **Zbl.** 756, 05045.
- 92.** Cvetković D., Gutman I., *The computer system "Graph", A useful tool in chemical graph theory*, J. Comput. Chem., **7**(1986), No. 5, 640-644.
Zbl. 662, 05058.
- 93.** Cvetković D., *Discussing graph theory with a computer, VI, Theorems proved by the aid of the computer*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **47**(1988), No. 16, 51-70.
MR 91h: 05118, **Zbl.** 662, 05058.
- 94.** Cvetković D., Rowlinson P., *Spectra of unicyclic graphs*, Graphs and Combinatorics, **3**(1987), 7-23.
MR 89c: 05054, **Zbl.** 623, 05038, **RŽ Mat** 1987, 8V657.
- 95.** Cvetković D., *Constructing trees with given eigenvalues and angles*, Linear Algebra and Appl., **105**(1988), 1-8.
MR 89i: 05195, **Zbl.** 679, 05053.
- 96.** Cvetković D., Rowlinson P., *Seeking counterexamples to the reconstruction conjecture for graphs, a research note*, Graph Theory, Proc. Eighth Yugoslav Sem. Graph Theory, Novi Sad, April 17-18, 1987, ed. R. Tošić, D. Aćketa, V. Petrović, R. Doroslovački, Univ. Novi Sad, Institute of Mathematics, Novi Sad 1989, 52-62.
MR 90k: 05107, **Zbl.** 694, 05044, **RŽ Mat** 1993, 2V304.
- 97.** Cvetković D., Rowlinson P., *Further properties of graph angles*, Scientia (Valparaiso), **1**(1988), 41-51.
Zbl. 726, 05049.
- 98.** Cvetković D., Dimitrijević V., Milosavljević M., *Jedan spektralni pokazatelj složenosti egzaktnog rešenja problema trgovačkog putnika*, XI bosansko-hercegovački simpozijum iz informatike, Jahorina '87, 30. 3.-3. 4. 1987., Zbornik radova, Knjiga 2, 2761-2765.
- 99.** Cvetković D., Dimitrijević V., Milosavljević M., *Travelling salesman problem complexity indices based on minimal spanning trees*, Graph Theory, Proc. Eighth Yugoslav Sem. Graph Theory, Novi Sad, April 17-18, 1987,

ed. R. Tošić, D. Acketa, V. Petrović, R. Doroslovački, Univ. Novi Sad, Institute of Mathematics, Novi Sad 1989, 43-51.

MR 90h: 05002, **Zbl.** 681, 90080.

100. Cvetković D., Radosavljević Z., Simić S., *Upotreba ekspertnog programskog sistema u istraživanjima u teoriji grafova*, SYM-OP-IS '89, 165-168.

101. Cvetković D., Dimitrijević V., Milosavljević M., *Klasa algoritama za suboptimalno rešavanje problema M trgovačkih putnika*, SYM-OP-IS '87, Hercegnovi 6. - 9. X 1987, Institut za ekonomiku industrije, Beograd, 1987, 101-106.

102. Cvetković D., Dimitrijević V., Milosavljević M., *Jedan pokazatelj složenosti rešavanja problema trgovačkog putnika zasnovan na linearnom faktoru*, SYM-OP-IS '87, Hercegnovi 6.-9. X 1987, Institut za ekonomiku industrije, Beograd, 1987, 95-99.

103. Milosavljević M., Dimitrijević V., Cvetković D., *Diskretne optimizacione procedure u prepoznavanju oblika*, Zbornik radova simpozijuma "Matematička i računarska lingvistika - Teorija i praksa", Beograd, 1987, ed. D. Vitas, Društvo za primenjenu lingvistiku Srbije, Beograd, 1990, 98-101.

104. Cvetković D., Ivanov K., *Jedan primer konstrukcije kataloga grafova interaktivnim programskim paketima*, XII simpozij o informacionim tehnologijama, Sarajevo-Jahorina 1988, Zbornik radova, knjiga 2, 781-789.

105. Cvetković D., Jakovljević-Atijas D., Pevac I., *Jedan pokušaj generisanja pomoću računara nestandardnih koraka u dokazivanju teorema*, XXXII jug. konf. ETAN-a, Sarajevo 1988, sv. XII, 11-18.

106. Cvetković D., *Some results on graph angles*, Rostock Math. Kolloq., **39**(1990), 74-88.

MR 92e: 05076, **Zbl.** 714, 05042, **RŽ Mat** 1991, 7V554.

107. Cvetković D., Rowlinson P., *On connected graphs with maximal index*, Publ. Inst. Math. (Beograd), **44**(**58**)(1988), 29-34.

MR 90i: 05066, **Zbl.** 661, 05041.

108. Cvetković D., Jakovljević-Atijas D., Kolar D., *Skolemizacija kojom se omogućava upotreba lema u automatskom dokazivanju teorema*, XXXIII jug. konf. ETAN-a, Novi Sad 1989, sv. XIII, 11-18.

109. Cvetković D., Jakovljević-Atijas D., Kolar D., *Generisanje formula za analizu slučajeva u automatskom dokazivanju teorema*, SYM-OP-IS '90,

Dubrovnik-Kupari 9 - 12. X. 1990, ed. J. Petrić, S. Krčevinac, V.Kovačević-Vučić, N. Mladenović, Naučna knjiga Beograd, 1990, 69-72.

110. Cvetković D., Petrović S., *Optimalna podela stabla na dva dela sa primenom u klasterovanju*, SYM-OP-IS '89, 161-164.

111. Cvetković D., Hotomski P., Kraus L., Pevac I., Radosavljević Z., Simić S., *Deset godina razvoja i upotrebe ekspertnog sistema GRAPH*, Simpozijum "Ostvarenja i primene veštačke inteligencije", Dubrovnik, 25.-27. oktobar 1989, ed. I. Bratko, D. Cvetković, P. Hotomski, Tehnički fakultet "M. Pupin", Institut za politehniku, Zrenjanin, 1990, 25-46.

MR 91k: 68169.

112. Cvetković D., Rowlinson P., *The largest eigenvalue of a graph - a survey*, Linear and Multilinear Algebra, **28**(1990), 3-33.

MR 91i: 05079, **Zbl.** 744, 05031.

113. Cvetković D., *Some possibilities of constructing graphs with given eigenvalues and angles*, Ars Combinatoria, **29A**(1990), 179-187.

MR 97f: 05127, **Zbl.** 726, 05048.

114. Cvetković D., *Some comments on the eigenspaces of graphs*, Publ. Inst. Math. (Beograd), **50(64)**(1991), 24-32.

MR 94k: 05133, **Zbl.** 761, 05069.

115. Cvetković D., Čangalović M., Dimitrijević V., Kraus L., Milosavljević M., Simić S., *TSP-SOLVER - a programig package for the travelling salesman problem*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **1**(1990), 41-47

Zbl. 722, 90059, **RŽ Mat** 1992, 1G279.

116. Cvetković D., Rowlinson P., Simić S., *A study of eigenspaces of graphs*, Linear Algebra and Appl., **182**(1993), 45-66.

MR 94f: 04103, **Zbl.** 778, 05057.

117. Cvetković D., Simić S., *Best suboptimal solutions in combinatorial optimization problems*, SYM-OP-IS '91, Hercegnovi 8-11. X. 1991., ed. R. Stanojević, J. Vuleta, Hercegnovi, 1991, 103-105.

118. Cvetković D., Milosavljević M., Dimitrijević V., *An algorithm for M asymmetric travelling salesman problem on a bandwidth - limited graph*, YU-JOR, **1**(1991), No. 1, 15-25.

MR 93b: 90071, **Zbl.** 747, 90099.

- 119.** Cvetković D., *Graph theoretical procedures in clustering discrete data*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **3**(1992), 21-26.
Zbl. 767, 62045, **RŽ Mat** 1994, 9V296.
- 120.** Cvetković D., Simić S., *Graph theoretical results obtained by the support of the expert system "Graph"*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **107**(1994), No.19, 19-41.
MR 96i: 05113.
- 121.** Cvetković D., Dimitrijević V., *Short edge subgraphs and complexity indices for the traveling salesman problem*, SYM-OP-IS '92, Beograd 13 -16. X 1992, ed. M. Vujošević, Beograd, 1992, 41-44.
- 122.** Cvetković D., Simić S., *Non-complete extended p -sum of graphs, graph angles and star partitions*, Publ. Inst. Math. (Beograd), **53(67)**(1993), 4-16.
MR 96b: 05107, **Zbl.** 795, 05093.
- 123.** Cvetković D., Dimitrijević V., Milosavljević M., *A survey of some non-standard traveling salesman problems*, YUJOR, **2**(1992), No. 2, 163-185.
Zbl. 772, 90078.
- 124.** Cvetković D., Rowlinson P., Simić S., *On some algorithmic investigations of star partitions of graphs*, Discrete Appl. Math., **62**(1995), 119-130.
MR 96g: 05102, **Zbl.** 838, 05079.
- 125.** Cvetković D., Simić S., *On graphs whose second largest eigenvalue does not exceed $(\sqrt{5} - 1)/2$* , Discrete Math., **138**(1995), 213-227.
MR 96a: 05103, **Zbl.** 842, 05059.
- 126.** Cvetković D., Petrić M., *Tables of graph spectra*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **4**(1993), 49-67.
MR 95f: 05078, **Zbl.** 804, 05049.
- 127.** Cvetković D., Simić S., *Minimal graphs whose second largest eigenvalue is not less than $(\sqrt{5} - 1)/2$* , Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **121**(2000), No. 25, 47-70.
MR 2002f: 05106.
- 128.** Cvetković D., *A graph theoretical procedure for clustering binary vectors*, Ars Combinatoria, **46**(1997), 267-276.
MR 98d: 05096, **Zbl.** 932, 68064.
- 129.** Cvetković D., Mitrović-Minić S., *A search strategy in branch and bound*

- algorithms for the traveling salesman problem*, SYM-OP-IS '93, 137-140.
- 130.** Madžarević T., Cvetković D., *Neke dopune strategije vođenja dokaza u dokazivaču teorema ekspertnog sistema GRAPH*, SYM-OP-IS '93, 31-34.
- 131.** Cvetković D., *Star partitions and the graph isomorphism problem*, Linear and Multilinear Algebra, **39**(1995), No. 1-2, 109-132.
MR 97b: 05105, **Zbl.** 831, 05043.
- 132.** Cvetković D., Dimitrijević V., *Spectral moments of the distance matrix and the length of an optimal solution of the traveling salesman problem*, YU-SYM-OP-IS '94, 341-343.
- 133.** Cvetković D., Dimitrijević V., Milosavljević M., *The traveling salesman problem on a chained digraph*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **5**(1994), 35-42.
MR 95m: 90138, **Zbl.** 821, 05051.
- 134.** Petrović R., Guberinić S., Batanović V., Cvetković D., *Operational research models in action, the result of international cooperation - a potpourri*, EJOR, **87**(1995), 500-506.
Zbl. 915, 90195.
- 135.** Cvetković D., Simić S., *The second largest eigenvalue of a graph - a survey*, FILOMAT (Niš), **9**(1995), No. 3, Int. Conf. on Algebra, Logic & Discrete Math., Niš, April 14-16, 1995, ed. S. Bogdanović, M. Ćirić, Ž. Perović, 449-472.
MR 97a: 05146, **Zbl.** 851, 05078.
- 136.** Cvetković D., *Some supplements to the tables of graph spectra*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **7**(1996), 45-54.
MR 97c: 05102, **Zbl.** 942, 05035.
- 137.** Cvetković D., *Spanning trees in the theory of graph spectra*, Proc. Second Math. Conf. in Priština, September 25-28, 1996, ed. Lj.D.Kočinac, Faculty of Sciences, Univ. Priština, Priština, 1997, 1-10.
MR 98j: 05050, **Zbl.** 942, 05015.
- 138.** Cvetković D., *On the reconstruction of the characteristic polynomial of a graph*, Discrete Math., **212**(2000), 45-52.
MR 2001e: 05079, **Zbl.** 942, 05046.
- 139.** Cvetković D., Ivanov K., Stevanović D., *A catalogue of bicyclic graphs on eight vertices*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat.,

- 11(2000), 79-92.
MR 2002d: 05102, **Zbl.** 997, 05062.
- 140.** Cvetković D., *On the 2-sum of three graphs. Variations on the graph product disconnectedness theme*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **118**(1999), No. 24, 107-117.
MR 2000m: 05151.
- 141.** Cvetković D., Čangalović M., *An algorithm for finding minimal branchings*, SYM-OP-IS '97, 183-186.
- 142.** Cvetković D., Lepović M., *Cospectral graphs with the same angles and with a minimal number of vertices*, Univ. Beograd, Publ. Elektrotehn. Fak. Ser. Mat., **8**(1997), 88-102.
MR 98k: 05106; **Zbl.** 885, 05086.
- 143.** Cvetković D., Lepović M., *Seeking counterexamples to the reconstruction conjecture for the characteristic polynomial of graphs and a positive result*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **116**(1998), No. 23, 91-100.
MR 2001b: 05140,
- 144.** Cvetković D., Simić S., Stevanović D., *4-regular integral graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **9**(1998), 89-102.
MR 99m: 05104.
- 145.** Cvetković D., Čangalović M., *Finding minimal branchings with a given number of arcs*, YUJOR, **12**(2002), No. 1, 1-10.
MR 2004a: 90101; **Zbl** 1150.05401.
- 146.** Cvetković D., *Characterizing properties of some graph invariants related to electron charges in the Hückel molecular orbital theory*, Proc. DIMACS Workshop on Discrete Mathematical Chemistry, DIMACS Ser. Discrete Math. Theoret. Comp. Sci., **51**(2000), 79-84.
Zbl. 968, 05055.
- 147.** Cvetković D., Čangalović M., Kovačević-Vujčić V., *Semidefnite programming and the traveling salesman problem*, SYM-OP-IS '98, 239-242.
- 148.** Caporossi G., Cvetković D., Gutman I., Hansen P., *Variable neighborhood search for extremal graphs, 2. Finding graphs with extremal energy*, J. Chem. Inform. Comp. Sci., **39**(1999), 984-996.
- 149.** Cvetković D., Simić S., Caporossi G., Hansen P., *Variable neighborhood*

- search for extremal graphs, 3. On the largest eigenvalue of color-constrained trees*, Linear and Multilinear Algebra, **49**(2001), No. 2, 143-160.
MR 2002m: 05138, **Zbl.** 1003, 05058.
- 150.** Cvetković D., Lepović M., Rowlinson P., Simić S., *A data base of star complements of graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **9**(1998), 103-112.
MR 99m: 05132.
- 151.** Cvetković D., Rowlinson P., Simić S., *Graphs with least eigenvalue -2: The star complement technique*, J. Algebraic Combinatorics, **14**(2001), 5-16.
MR 2002g: 05121, **Zbl.** 982, 05065.
- 152.** Bell F.K., Cvetković D., Rowlinson P., Simić S., *Some additions to the theory of star partitions of graphs*, Discussiones Math. - Graph Theory, **19**(1999), 119-134.
MR 2002e: 05093, **Zbl.** 958, 05090.
- 153.** Cvetković D., Rowlinson P., Simić S., *Some characterizations of graphs by star complements*, Linear Algebra Appl., **301**(1999), 81-87.
MR 2001j: 05082, **Zbl.** 945, 05042.
- 154.** Cvetković D., Fowler P.W., Rowlinson P., Stevanović D., *Constructing fullerene graphs from eigenvalues and angles*, Linear Algebra and Appl., **356**(2002), 37-56.
MR 2004c: 05121, **Zbl.** 1017.05070.
- 155.** Cvetković D., Fowler P.W., *A group theoretical bound for the number of main eigenvalues of a graph*, J. Chem. Inform. Comp. Sci., **39**(1999), 638-641.
- 156.** Cvetković D., Čangalović M., Kovačević-Vujčić V., *Semidefnite relaxations of the traveling salesman problem*, YUJOR, **9**(1999), 157-168.
MR 2000h: 90064; **Zbl** 1006.90065.
- 157.** Cvetković D., Čangalović M., Kovačević-Vujčić V., *Semidefnite programming methods for the symmetric traveling salesman problem*, Integer Programming and Combinatorial Optimization, Proc. 7th Internat. IPCO Conf., Graz, Austria, June 1999, ed. G.Cornuejols, R.E.Burkard, G.J.Woeginger, Lecture Notes Comp.Sci. 1610, Springer, Berlin, 1999, 126-136.
MR 2001e: 90067, **Zbl.** 948, 90114.
- 158.** Balińska K., Cvetković D., Lepović M., Simić S., *There are exactly*

- 150 connected integral graphs up to 10 vertices*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **10**(1999), 95-105.
MR 2000d: 05075; **Zbl** 1008.05099.
- 159.** Cvetković D., Čangalović M., Kovačević-Vujčić V., *Complexity indices for the traveling salesman problem based on a semidefinite relaxation*, SYM-OP-IS '99, 177-180.
- 160.** Cvetković D., Lepović M., Rowlinson P., Simić S., *The maximal exceptional graphs*, J. Combinatorial Theory, Ser. B, **86**(2002), 347–363.
MR 2003h: 05131, **Zbl.** 1028.05063.
- 161.** Cvetković D., Rowlinson P., Simić S., *Constructions of the maximal exceptional graphs with largest degree less than 28*, University of Stirling, Technical Report CSM-156, Stirling, 2000, 1-21.
- 162.** Cvetković D., Rowlinson P., Simić S., *The maximal exceptional graphs with largest degree less than 28*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **122**(2001), No. 26, 115-131.
MR 2003a: 05102, **Zbl.** 997, 05060.
- 163.** Cvetković D., Čangalović M., Kovačević-Vujčić V., *Addaptive approach to the traveling salesman problem using a semidefinite relaxation*, SYM-OP-IS '2000, 213-216.
- 164.** Cvetković D., Lepović M., Rowlinson P., Simić S., *Computer investigations of the maximal exceptional graphs*, University of Stirling, Technical Report CSM-160, Stirling, 2001, 1-67.
- 165.** Cvetković D., Čangalović M., Kovačević-Vujčić V., *Some new heuristics for the traveling salesman problem*, SYM-OP-IS '2001, 285-287.
Zbl 1041.90525.
- 166.** Cvetković D., *Graphs with least eigenvalue -2 : A historical survey and recent developments in maximal exceptional graphs*, Linear Algebra and Appl., **356**(2002), 189-210.
MR 2003m: 05117, **Zbl.** 1012.05113.
- 167.** Balińska K., Cvetković D., Radosavljević Z., Simić S., Stevanović D., *A survey on integral graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **13**(2002), 42-65; Errata, These Publications, **15**(2004), 112.
MR 2004d: 05122, **Zbl.** 1051.05057.
- 168.** Cvetković D., Rowlinson P., *Spectral graph theory*, Topics in Algebraic

Graph Theory, ed. L.W. Beineke, R.J. Wilson, Cambridge University Press, Cambridge, 2004, 88-112.

Zbl. 1059.05071.

169. Cvetković D., Simić S., *Graph theoretical results obtained by the support of the expert system "Graph" - an extended survey*, Graphs and Discovery, ed. S. Fajtlowicz, P. Fowler, P. Hansen, M. Janowitz, F. Roberts, DIMACS Series in Discrete Math. and Theor. Comp. Sci., Amer. Math. Soc., 2005, 39-70.

MR 2006g: 05124; **Zbl** 1108.05061.

170. Cvetković D., Čangalović M., Kovačević-Vujčić V., *Optimization and highly informative graph invariants*, Two Topics in Mathematics, ed. B. Stanković, Zbornik radova **10(18)**, Matematički institut SANU, Beograd 2004, 5-39.

MR 2006g: 05123

171. Cvetković D., Čangalović M., Kovačević-Vujčić V., *Combinatorial optimization and highly informative graph invariants*, Proc. 6th Balkan Conf. Oper. Res., ed. B. Papathanassiou, M. Vlachopoulou, Thessaloniki, Greece, 22 - 25 May, 2002, F2B2.

172. Cvetković D., Rowlinson P., Simić S., *Graphs with least eigenvalue -2; A new proof of the 31 forbidden subgraphs theorem*, Designs, Codes and Cryptography, **34(2005)**, 229-240.

MR 2006a: 05089, **Zbl.** 1063.05090.

173. Cvetković D., Stevanović D., *Graphs with least eigenvalue at least $-\sqrt{3}$* , Publ. Inst. Math. (Beograd), **73(87)(2003)**, 39-51.

MR 2005e: 05090.

174. Cvetković D., Stevanović D., *Spectral moments of fullerene graphs*, MATCH Commun. Math. Comput. Chem., **50(2004)**, 62-72.

MR 2004k: 05130, **Zbl.** 1054.05067.

175. Branković Lj., Cvetković D., *The eigenspace of the eigenvalue -2 in generalized line graphs and a problem in security of statistical data bases*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **14(2003)**, 37-48.

MR 2005i: 05118; **Zbl** 1105.05041.

176. Cvetković D., *Graphs with least eigenvalue -2: The eigenspace of the eigenvalue -2*, Rendiconti Sem. Mat. Messina, Ser. II, **25(9)(2003)**, 63-86.

MR 2006g: 05122; **Zbl** 1124.05061.

- 177.** Cvetković D., Mitrović-Minić S., *A generalized short edge subgraph for a combinatorial optimization problem*, SYM-OP-IS 2003, 319-321.
Zbl. 1041.90526.
- 178.** Cvetković D., Hansen P., Kovačević-Vujčić V., *On some interconnections between combinatorial optimization and extremal graph theory*, YU-JOR, **14**(2004), No. 2, 147-154.
MR 2009f: 05129
- 179.** Cvetković D., Lepović M., *Sets of cospectral graphs with least eigenvalue at least -2 and some related results*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **129**(2004), No. 29, 85-102.
MR 2005f: 05099.
- 180.** Cvetković D., Lepović M., *Cospectral graphs with least eigenvalue at least -2*, Publ. Inst. Math. (Beograd), **78(92)**(2005), 51-63.
MR 2006k: 05132
- 181.** Cvetković D., *Notes on maximal exceptional graphs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **15**(2004), 103-107.
Zbl 1089.05043.
- 182.** Cvetković D., Lepović M., *Towards an algebra of SINGs*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **16**(2005), 110-118.
Zbl 1104.05043.
- 183.** Cvetković D., *Signless Laplacians and line graphs*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **131**(2005), No. 30, 85-92.
MR 2006m: 05152
- 184.** Cvetković D., Čangalović M., Kovačević-Vujčić V., *Counting Hamiltonian circuits with the same eigenvector for the second largest eigenvalue*, SYM-OP-IS 2005, 317-320.
- 185.** Cvetković D., Rowlinson P., Simić S., *Star complements and exceptional graphs*, Linear Algebra Appl., **423**(2007), 146-154.
MR 2008c: 05104
- 186.** Cvetković D., Rowlinson P., Simić S., *Signless Laplacians of finite graphs*, Linear Algebra Appl., **423**(2007), 155-171.
MR 2008c: 05105; **Zbl** 1113.05061.
- 187.** Aouchiche M., Bell F.K., Cvetković D., Hansen P., Rowlinson P., Simić S., Stevanović D., *Variable neighborhood search for extremal graphs*,

16. *Some conjectures related to the largest eigenvalue of a graph*, Europ. J. Oper. Res., **191**(2008), No. 3, 661-676.
MR 2009j: 05140
- 188.** Cardoso D., Cvetković D., *Graphs with least eigenvalue -2 attaining a convex quadratic upper bound for the stability number*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **133**(2006), No. 31, 42-55.
MR 2009d: 05143
- 189.** Brankov V., Cvetković D., Simić S., Stevanović D., *Simultaneous editing and multilabelling of graphs in system newGRAPH*, Univ. Beograd, Publ. Elektrotehn. Fak., Ser. Mat., **17**(2006), 112-121.
- 190.** Cvetković D., Grout J., *Maximal energy graphs should have a small number of distinct eigenvalues*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **134**(2007), No. 32, 43-57.
MR 2008m: 05172
- 191.** Cvetković D., Čangalović M., Kovačević-Vučić V., Kratica J., *Distance-perfect graphs*, SYM-OP-IS 2007, 289-291.
- 192.** Cvetković D., Rowlinson P., Simić S., *Eigenvalue bounds for the signless Laplacian*, Publ. Inst. Math. (Beograd), **81(95)**(2007), 11-27.
MR 2009e: 05181; **Zbl** 1164.05038.
- 193.** Cvetković D. et al., *Zero forcing sets and the minimum rank of graphs*, Linear Algebra Appl., **428**(2008), No. 7, 1628-1648.
Zbl 1135.05035.
- 194.** Bell F.K., Cvetković D., Rowlinson P., Simić S., *Graphs for which the least eigenvalue is minimal, I*, Linear Algebra Appl., **429**(2008), 234-241.
Zbl 1149.05030.
- 195.** Bell F.K., Cvetković D., Rowlinson P., Simić S., *Graphs for which the least eigenvalue is minimal, II*, Linear Algebra Appl., **429**(2008), 2168-2179.
MR 2009f: 05160; **Zbl** 1144.05313.
- 196.** Cardoso D., Cvetković D., Rowlinson P., Simić S., *A sharp lower bound for the least eigenvalue of the signless Laplacian of a non-bipartite graph*, Linear Algebra Appl., **429**(2008), 2770-2780.
MR 2009i: 05145; **Zbl** 1148.05046.
- 197.** Cvetković D., *New theorems for signless Laplacian eigenvalues*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **137**(2008), No.

33, 131-146.

198. Cvetković D., Davidović D., *Applications of some graph invariants to the analysis of multiprocessor interconnection networks*, YUJOR, **18**(2008), No. 2, 173-186.

MR 2010e: 68146; **Zbl** 1183.90070.

199. Kratica J., Cvetković D., Čangalović M., Kovačević-Vujčić V., Kojić J., *The metric dimension of strongly regular graphs*, SYM-OP-IS 2008, 341-344.

200. Cvetković D., Davidović T., *Exhaustive search for multiprocessor interconnection networks with small tightness value*, SYM-OP-IS 2008, 329-332.

201. Cvetković D., Simić S.K., *Towards a spectral theory of graphs based on the signless Laplacian, I*, Publ. Inst. Math. (Beograd), **85(99)**(2009), 19-33.

MR 2010i: 05203

202. Cvetković D., Davidović T., *Multiprocessor interconnection networks with small tightness*, Internat. J. Foundations Computer Sci., **20**(2009), No. 5, 941-963.

MR 2011a: 68007; **Zbl** 1186.68332

203. Cvetković D., Simić S.K., *Towards a spectral theory of graphs based on the signless Laplacian, II*, Linear Algebra Appl., **432**(2010), 2257-2272.

204. Cvetković D., Davidović T., *Well-suited multiprocessor topologies with small number of processors*, Novi Sad J. Math., **38**(2008), No. 3, 209-217.

205. Cvetković D., *Applications of Graph Spectra: An introduction to the literature*, *Applications of Graph Spectra*, Zbornik radova **13(21)**, ed. D. Cvetković, I. Gutman, Mathematical Institute SANU, Belgrade, 2009, 7-31. Improved version: *Selected Topics on Applications of Graph Spectra*, Zbornik radova **14(22)**, ed. D. Cvetković, I. Gutman, Mathematical Institute SANU, Belgrade, 2011, 9-34.

MR 2010j: 05229

206. Cvetković D., Davidović T., *Multiprocessor interconnection networks*, *Applications of Graph Spectra*, Zbornik radova **13(21)**, ed. D. Cvetković, I. Gutman, Mathematical Institute SANU, Belgrade, 2009, 33-63. Improved version: *Selected Topics on Applications of Graph Spectra*, Zbornik radova **14(22)**, ed. D. Cvetković, I. Gutman, Mathematical Institute SANU, Bel-

grade, 2011, 35-63.

MR 2010j: 05228

207. Cvetković D., Simić S.K., *Towards a spectral theory of graphs based on the signless Laplacian, III*, Appl. Anal. Discrete Math., **4**(2010), 156-166.

208. Cvetković D., Simić S.K., Stanić Z., *Spectral determination of graphs whose components are paths and cycles*, Comput. Math. Appl., **59**(2010), 3849-3857.

209. Cvetković D., Davidović T., Ilić A., Simić S.K., *Graphs for small multi-processor interconnection networks*, Appl. Math. Computation, **217**(2010), 2468-2480.

210. Cvetković D., Simić S.K., *Graph spectra in computer science*, Linear Algebra Appl., **434**(2011), 1545-1562.

211. Cvetković D., Rowlinson P., Stanić Z., Yoon M.-G., *Controllable graphs*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math. **143**(2011), No. 36, 81-88; Erratum, This Bulletin, **145**(2013), No. 38, 187.

212. Cvetković D., Rowlinson P., Stanić Z., Yoon M.-G., *Controllable graphs with least eigenvalue at least -2*, Applicable Analysis and Discrete Mathematics, **5**(2011), No. 2, 165-175.

213. Cvetković D., Simić S.K., *Spectral graph theory in computer science*, The IPSI BgD Transactions on Advanced Research, **8**(2012), No. 2, 35-42.

214. Arsić B., Cvetković D., Simić S.K., Škarić M., *Graph spectral techniques in computer sciences*, Applicable Analysis and Discrete Mathematics, **6**(2012), No. 1, 1-30.

215. Cvetković D., *Complexity indices for the travelling salesman problem and data mining*, Transactions of Combinatorics, **1**(2012), No. 1, 35-43.

216. Cvetković D., *Spectral recognition of graphs*, YUJOR, **22**(2012), No. 2, 145-161.

217. Yoon M.-G., Rowlinson P., Cvetković D., Stanić Z., *Controllability of multi-dynamical systems with a broadcasting control signal*, Asian J. Control, **16**(2014), No. 4, 1066-1072.

218. Cvetković D., Jovanović I., *Network alignment using self-returning walks*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math.,

- 145(2013), No. 38, 43-61.
219. Cvetković D., *Some recent results on spectral recognition of graphs*, SYM-OP-IS 2013, 263-268.
220. Cvetković D., Manojlović V., *Spectral recognition of music melodies*, SYM-OP-IS 2013, 269-271.
221. Caporossi G., Cvetković D., Rowlinson P., *Spectral reconstruction and isomorphism of graphs using variable neighborhood search*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., **146**(2014), No. 39, 23-38.
222. Barbedo I., Cardoso D.M., Cvetković D., Rama P., Simić S.K. *A recursive construction of regular exceptional graphs with least eigenvalue -2* , Portugal Math., **71**(2014), No. 2, 79-96.
223. Cvetković D., *Spectral graph theory: some elementary but important results*, Phlogiston, 22(2014), 9-33.
224. Cvetković D., Rowlinson P., Simić S.K., *Graphs with least eigenvalue at least -2 : ten years on*, Linear Algebra Appl., 484(2015), 504-539.
225. Cvetković D., Davidović T., Jovanović I., *Some new models for multiprocessor interconnection networks*, YUJOR, 26(2016), No. 4, 423-439. DOI: 10.2298/YJOR160315020C.
226. Cvetković D., Jovanović I., *Constructing graphs with given spectrum and the spectral radius at most 2*, Linear Algebra Appl., 515(2017), 255-274. DOI: 10.1016/j.laa.2016.11.020.
227. Cvetković D., *Three examples of a ground-breaking impact of the variable neighborhood search on investigations in graph theory*, Bull. Acad. Serbe Sci. Arts, Cl. Sci. Math. Natur., Sci. Math., 149(2016), No. 41, 87-99.
228. Cvetković D., Čangalović M., Dražić Z., Kovačević-Vujčić V., *Some new complexity indices for the traveling salesman problem*, SYM-OP-IS 2016, 283-286.
229. Cvetković D., Čangalović M., Dražić Z., Kovačević-Vujčić V., *Complexity indices for the traveling salesman problem based on short edge subgraphs*, CEJOR, DOI: 10.1007/s10100-017-0513-8, to appear.
230. Cvetković D., *Spectral theory of Smith graphs*, Bull. Acad. Serbe Sci.

Arts, Cl. Sci. Math. Natur., Sci. Math., 150(2017), No. 42, 19-40.

231. Cvetković D., Čangalović M., Dražić Z., Kovačević-Vujčić V., *Composite complexity indices for the traveling salesman problem*, SYM-OP-IS 2017, 241-246.