

Project: Graph theory and mathematical programming with applications in chemistry and engineering

PUBLICATIONS IN 2008

SCIENTIFIC MONOGRAPHS

1. Brualdi R.A., Cvetković D., *A Combinatorial Approach to Matrix Theory and Its Application*, CRC Press, Boca Raton, 2008.
2. Cvetković D., Rowlinson P., Simić S., *Eigenspaces of graphs*, Cambridge University Press, Cambridge, Digitaly printed version, 2008.
3. S. Guberinić, G. Šenborn, B. Lazić, *Optimal Trafic Control, Urban Intersections*, CRC Press, Boca Raton - London - New York, 2008.

SCIENTIFIC PAPERS

Spectra of Graphs

1. 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.
2. F.K. Bell, D. Cvetković, P. Rowlinson, S.K. Simić, Graphs for which the least eigenvalue is minimal, I, *Linear Algebra and Appl.*, 429(2008), 234-241.
3. F.K. Bell, D. Cvetković, P. Rowlinson, S.K. Simić, Graphs for which the least eigenvalue is minimal, II, *Linear Algebra and Appl.*, 429(2008), 2168-2179.
4. D.M. Cardoso, D. Cvetković, P. Rowlinson, S.K. Simić, A sharp lower bound for the least eigenvalue of the signless Laplacian of a non-bipartite graph, *Linear Algebra and Appl.*, 429 (2008), 2770-2780.
5. M. Aouchiche, F.K. Bell, D. Cvetković, P. Hansen, P. Rowlinson, S.K. Simić, D. Stevanović, Variable neighborhood search for extremal graphs, 16. Some conjectures related to the largest eigenvalue of a graph, *Europ. J. Oper. Res.*, 191(3)(2008), 661-676.

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10. D. Stevanović, On the Randić index and Diameter of Chemical Graphs, in: *Recent Results in the Theory of Randić Index*, I. Gutman, B. Furtula (Eds.), Mathematical Chemistry Monographs, Vol. 6, University of Kragujevac, Kragujevac, 2008, pp. 49-55.
11. D. Stevanović, Maximizing Wiener index of graphs with fixed maximum degree, *MATCH Commun. Math. Comput. Chem.* 60 (2008), 71-83.
12. D. Stevanović, M. Aouchiche, P. Hansen, On the spectral radius of graphs with a given domination number, *Linear Algebra Appl.* 428 (2008), 1854-1864.
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14. D. Stevanović, P. Hansen, The minimum spectral radius of graphs with a given clique number, *Electron. J. Linear Algebra* 17 (2008), 110-117.
15. Petrović M., Borovićanin B., The spectral radius of tricyclic graphs with n vertices and k pendant vertices, *Ars Combinatoria*, 86(2008), 77-88.
16. Petrović M., Borovićanin B., Aleksić T., Bicyclic graphs for which the least eigenvalue is minimum, *Linear Algebra Appl.* (2008), doi: 10.1016/j.laa.2008.10.026.
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PAPERS IN PRINT

1. D. Cvetković, S.K. Simić, Towards a spectral theory of graphs based on the signless Laplacian, I, *Publ. Math. Inst. (Beograd)*, to appear.
2. T. Biyikoğlu, S.K. Simić, Z. Stanić, Some notes on cographs, *Ars Combinatoria*, to appear.
3. F. Belardo, E.M. Li Marzi, S.K. Simić, Bidegreed trees with a small index, *MATCH Commun. Math. Chem.*, to appear.
4. M. Bašić, M. Petković, D. Stevanović, Integral circulant graphs with perfect state transfer, *Appl. Math. Letters*, accepted for publication.
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