

Known citations of my work (excluding self-citations by any of the co-authors)

1. B. Balasundaram, S. Butenko, I. Hicks, and S. Sachdeva. Clique Relaxations in Social Network Analysis: The Maximum k -plex Problem. Submitted. Cited by [30, 41, 91].
2. S. Butenko and S. Trukhanov. Using critical sets to solve the maximum independent set problem. *Operations Research Letters*, 35(4): 519-524, 2007 [46].
3. S. Butenko and W. Wilhelm. Clique-detection models in computational biochemistry and genomics. *European Journal of Operational Research*, 173:1-17, 2006 [4, 9, 23, 31, 32, 40-42, 69].
4. V. Boginski, S. Butenko, and P. Pardalos. Mining market data: a network approach. *Computers & Operations Research*, 33: 3171-3184, 2006 [6, 31, 47, 49, 55, 59, 69, 75].
5. B. Balasundaram, S. Butenko, and S. Trukhanov. Novel approaches for analyzing biological networks. *Journal of Combinatorial Optimization*, 10:23-39, 2005 [41, 53, 56-58].
6. B. Balasundaram and S. Butenko. Constructing test functions for global optimization using continuous formulations of graph problems. *Optimization Methods and Software*, 20:439-452, 2005 [18].
7. S. Butenko, A. Golodnikov, and S. Uryasev. Optimal security liquidation algorithms. *Computational Optimization and Applications*, 32: 9-27, 2005 [10, 16, 74].
8. V. Boginski, S. Butenko, and P. Pardalos. Statistical analysis of financial networks. *Computational Statistics & Data Analysis*, 48: 431-443, 2005 [21, 31, 37, 44, 47, 67, 75, 77].
9. V. Boginski, S. Butenko, and P. Pardalos. Network models of massive datasets. *Computer Science and Information Systems*, 1:79-93, 2004.
10. S. Busygin, S. Butenko, and P. M. Pardalos. A heuristic for the maximum independent set problem based on optimization of a quadratic over a sphere. *Journal of Combinatorial Optimization*, 6:287-297, 2002. Cited by [3, 8, 12, 28, 70, 73, 80, 95, 96]
11. J. Abello, S. Butenko, P. Pardalos, and M. Resende. Finding independent sets in a graph using continuous multivariable polynomial formulations. *Journal of Global Optimization*, 21:111-137, 2001 [13, 19, 22, 38, 43, 81].
12. S. Butenko, P. Festa, and P. M. Pardalos. On the chromatic number of graphs. *J. Optim. Theory Appl.*, 109:51-67, 2001. Cited in [45, 64]
13. S. Butenko, X. Cheng, C. Oliveira, and P. M. Pardalos. A new heuristic for the minimum connected dominating set problem on ad hoc wireless networks. In S. Butenko, R. Murphy, and P. Pardalos, editors, *Recent Developments in Cooperative Control and Optimization*, pages 61-73. Kluwer Academic Publishers, 2004 [2, 29, 54, 60, 61, 79, 82, 88, 93, 100-103].

14. V. Boginski, S. Butenko, and P.M. Pardalos. Network-based techniques in the analysis of the stock market. In P. M. Pardalos, A. Migdalas, and G. Baourakis, editors, *Supply Chain and Finance*, pages 1–14. World Scientific, 2004.
15. V. Boginski, S. Butenko, and P. M. Pardalos. Matrix-based methods for college football rankings. In S. Butenko, J. Gil-Lafuente, and P. M. Pardalos, editors, *Economics, Management and Optimization in Sports*, pages 1–13. Springer, 2004 [7, 14].
16. V. Boginski, S. Butenko, P. M. Pardalos, and O. Prokopyev. Collaboration networks in sports. In S. Butenko, J. Gil-Lafuente, and P. M. Pardalos, editors, *Economics, Management and Optimization in Sports*, pages 265–277. Springer, 2004.
17. V. Boginski, S. Butenko, and P. M. Pardalos. Modeling and optimization in massive graphs. In P. M. Pardalos and H. Wolkowicz, editors, *Novel Approaches to Hard Discrete Optimization*, pages 17–39. American Mathematical Society, Providence, RI, 2003.
18. V. Boginski, S. Butenko, and P. M. Pardalos. On structural properties of the market graph. In A. Nagurney, editor, *Innovation in Financial and Economic Networks*, pages 29–45. Edward Elgar Publishers, London, 2003 [15,33,34,44,48,62,63,71,75,90,97,104,105].
19. S. Butenko, X. Cheng, D.-Z. Du, and P. M. Pardalos. On the construction of virtual backbone for ad hoc wireless network. In S. Butenko, R. Murphey, and P. Pardalos, editors, *Cooperative Control: Models, Applications and Algorithms*, pages 43–54. Kluwer Academic Publishers, 2003 [1, 17, 20, 24–27, 35, 36, 39, 51, 52, 54, 65, 66, 72, 78, 83–87, 89, 92, 94, 106]
20. P. Pardalos, V. Yatsenko, and S. Butenko. Robust recursive bayesian estimation and quantum minimax strategies. In R. Murphey and P. Pardalos, editors, *Cooperative Control and Optimization*, pages 213–230. Kluwer Academic Publishers, 2002.
21. C. W. Commander, S. Butenko, P. M. Pardalos, and C. A. S. Oliveira. Reactive GRASP with Path Relinking for Broadcast Scheduling. In *Proceedings of the 40th Annual International Telemetry Conference*, pages 792-800, San Diego, CA, 2004.
22. C. W. Commander, S. Butenko, and P. M. Pardalos. A GRASP for Broadcast Scheduling in Ad-Hoc TDMA Networks. *International Conference on Computing, Communications, and Control Technologies*, 5: 323-327, Austin, TX, 2004.
23. S. Butenko, C. Oliveira, and P. M. Pardalos. A new algorithm for the minimum connected dominating set problem on ad hoc wireless networks. In H.-W. Chu, J. Ferrer, S. Lim, G. Kharatishvili, and C. Oliveira, editors, *Proceedings of Int. Conf. on Computer, Communication and Control Technologies (CCCT'03)*, volume V, pages 39–44. International Institute of Informatics and Systematics (IIIS), 2003. [11, 98, 99]
24. S. Butenko, P. M. Pardalos, I. V. Sergienko, V. Shylo, and P. Stetsyuk. Finding maximum independent sets in graphs arising from coding theory. In *Proceedings of the Seventeenth ACM Symposium on Applied Computing*, pages 542–546, Madrid, Spain, 2002 [5, 50, 76]
25. S. Butenko, P. M. Pardalos, I. V. Sergienko, V. Shylo, and P. Stetsyuk. Estimating the size of Correcting Codes using Extremal Graph Problems. In C. Pearce, editor, *Optimization:*

Structure and Applications, Kluwer Academic Publishers, to appear (accepted in 2002) [5, 68]

References

- [1] T. Acharya, S. Chattopadhyay, and R. Roy. Energy-aware virtual backbone tree for efficient routing in wireless sensor networks. *International Conference on Networking and Services (ICNS '07)*, page 96, 2007.
- [2] T. Acharya and R. Roy. Distributed algorithm for power aware minimum connected dominating set for routing in wireless ad hoc network. In *International Conference on Parallel Processing (ICPP 2005)*, pages 387–394. June 2005.
- [3] B. Alidaee, G. Kochenberger, and H. Wang. Simple and fast surrogate constraint heuristics for the maximum independent set problem. *Journal of Heuristics*, 2008. <http://www.springerlink.com/content/d9124331503h8771/>.
- [4] G. Altun, H.-J. Hu, S. Gremalschi, R. W. Harrison, and Y. Pan. A feature selection algorithm based on graph theory and random forests for protein secondary structure prediction. In *Bioinformatics Research and Applications*, volume 4463 of *Lecture Notes in Computer Science*, pages 590–600. Springer, 2007.
- [5] D.V. Andrade, M.G.C. Resende, and R.F. Werneck. Fast local search for the maximum independent set problem. In *Proceedings of 7th International Workshop on Experimental Algorithms (WEA 2008)*, Lecture Notes in Computer Science, 2008.
- [6] F. Araque, A. Salguero, R. Carrasco, and L. Martinez. Using fuzzy multi-attribute data mining in stock market analysis for supporting investment decisions. *Studies in Fuzziness and Soft Computing*, 233:289–306, 2008.
- [7] J. R. Ashburn and P. M. Colvert. A bayesian mean-value approach with a self-consistently determined prior distribution for the ranking of college football teams. <http://arxiv.org/abs/physics/0607064>, 2007.
- [8] V. C. Barbosa and L. C. D. Campos. A novel evolutionary formulation of the maximum independent set problem. *Journal of Combinatorial Optimization*, 8(4):419–437, 2004.
- [9] R. Battiti and F. Mascia. Reactive and dynamic local search for max-clique, does the complexity pay off? Technical Report DIT-06-027, Informatica e Telecomunicazioni, University of Trento, Italy, 2006.
- [10] A. Blazejewski. *Computational models for stock market order submissions*. PhD thesis, The University of Sydney, Sydney, Australia, March 2005.
- [11] J. Blum, M. Ding, A. Thaeler, and X. Cheng. Connected dominating set in sensor networks and manets. In *Handbook of Combinatorial Optimization*, pages 329–369. Springer, 2005.

- [12] P. Bohannon, W. Fan, M. Flaster, and P. P. S. Narayan. Information preserving xml schema embedding. In *VLDB '05: Proceedings of the 31st international conference on Very large data bases*, pages 85–96. VLDB Endowment, 2005.
- [13] S. Busygin. A new trust region technique for the maximum weight clique problem. *Discrete Applied Mathematics*, 154(15):2080–2096, 2006.
- [14] C. R. Cassady, L. M. Maillart, and S. Salman. Ranking sports teams: A customizable quadratic assignment approach. *Interfaces*, 35(6):497–510, 2005.
- [15] K. H. Chang, K. Kim, H. Oshima, and S. M. Yoon. Subway networks in cities. *Journal of the Korean Physical Society*, 48:S143–S145, 2006.
- [16] A. Chekhlov, O. Batrachenko, and M. Solodukhin. On new algorithms for hedging export/import commodity flows. Technical Report 2003-1, Thor Asset Management, Inc., 2003. In Russian.
- [17] P. Chen and C. Zhao. Area wireless sensor networks for personnel location under coalmine. In *2nd IEEE Conference on Industrial Electronics and Applications (ICIEA 2007)*, pages 2882–2885, 2007.
- [18] C.W. Commander. Maximum cut problem, max-cut. In *Encyclopedia of Optimization, second edition*. Springer, 2008.
- [19] P. L. de Angelis, I. M. Bomze, and G. Toraldo. Ellipsoidal approach to box-constrained quadratic problems. *Journal of Global Optimization*, 28(1):1–15, 2004.
- [20] W. El-Hajj, Z. Trabelsia, and D. Kountanisa. Fast distributed dominating set based routing in large scale MANETs. *Computer Communications*, 30:2880–2891, 2007.
- [21] P. Zhang et al. Analysis of money laundering utilities and paths in complex financial networks. <http://scholar.ilib.cn/A-tyzxjxyxb200503018.html>, 2005. In Chinese.
- [22] Y. Fang and A. B. McDonald. Theoretical capacity of multi-hop wireless ad hoc networks. In *Mobile and Wireless Communication Networks*, volume 162 of *IFIP International Federation for Information Processing*, pages 311–322. Springer, 2005.
- [23] M. García-Arnau, D. Manrique, and A. Rodríguez-Patón. A parallel dna algorithm using a microfluidic device to build scheduling grids. In *Bio-inspired Modeling of Cognitive Tasks*, volume 4527 of *Lecture Notes in Computer Science*, pages 193–202. Springer, 2007.
- [24] J. Ghosh. *Sociological Orbit Based Mobility Profiling and Routing for Wireless Networks*. PhD thesis, University at Buffalo, 2006.
- [25] J. Ghosh, S. J. Philip, and C. Qiao. ORBIT Mobility Framework and Orbit Based Routing (OBR) Protocol for MANET. Technical Report CSE Dept. TR-2004-08, University at Buffalo, July 2004.
- [26] J. Ghosh, S. J. Philip, and C. Qiao. Performance analysis of mobility based routing protocols in MANET. Technical Report CSE Dept. TR-2004-14, University at Buffalo, July 2004.

- [27] J. Ghosh, S. J. Philip, and C. Qiao. Sociological Orbit aware Location Approximation and Routing in MANET. In *Proceedings of IEEE Broadnets*, Boston, MA, October 2005.
- [28] A. Grosso, M. Locatelli, and F. Della Croce. Combining swaps and node weights in an adaptive greedy approach for the maximum clique problem. *Journal of Heuristics*, 10(2):135–152, 2004.
- [29] B. Han, H. Fu, L. Lin, and W. Jia. Efficient construction of connected dominating set in wireless ad hoc networks. In *IEEE International Conference on Mobile Ad-hoc and Sensor Systems*, pages 570– 572, October 2004.
- [30] S. Hill, F. Provost, and C. Volinsky. Learning and inference in massive social networks [extended abstract]. In *The 5th International Workshop on Mining and Learning with Graphs (MLG '07)*, 2007.
- [31] F. Hüffner, C. Komusiewicz, H. Moser, and R. Niedermeier. Enumerating isolated cliques in synthetic and financial networks. In *Combinatorial Optimization and Applications*, volume 5165 of *Lecture Notes in Computer Science*, pages 405–416. Springer, 2008.
- [32] F. Huffner, R. Niedermeier, and S. Wernicke. Fixed-parameter algorithms for graph-modeled data clustering. In *Clustering Challenges in Biological Networks*. World Scientific, 2008. To appear.
- [33] J. Idicula. Highly interconnected subsystems of the stock market. NET Institute Working Paper No. 04-17, December 2004.
- [34] M. Inostroza-Ponta, R. Berretta, A. Mendes, and P. Moscato. An automatic graph layout procedure to visualize correlated data. In *Artificial Intelligence in Theory and Practice*, volume 217 of *IFIP International Federation for Information Processing*, pages 179–188. Springer, 2006.
- [35] S. J. Philip J. Ghosh and C. Qiao. Sociological orbit aware location approximation and routing (solar) in manet. *Ad Hoc Networks*, 5(2):189–209, 2007.
- [36] R.-H. Jan and Y. R. Lee. An indoor geolocation system for wireless lans. In *International Conference on Parallel Processing Workshops*, page 29– 34. IEEE, October 2003.
- [37] M. J. Jeger, M. Pautasso, O. Holdenrieder, and M. W. Shaw. Modelling disease spread and control in networks: implications for plant sciences. *New Phytologist*, 174:279–297(19), April 2007.
- [38] A. Joshi and G. Nagy. Online handwriting recognition using time-order of lexical and signal co-occurrences. In *Proceedings of the 12th Conference of the International Graphonomics Society*, Salerno, Italy, June 2005.
- [39] B. Kim, J. Yang, D. Zhou, and M.-T. Sun. Energy-aware connected dominating set construction in mobile ad hoc networks. In *Proceedings. 14th International Conference on Computer Communications and Networks (ICCCN 2005)*, pages 229– 234, October 2005.

- [40] I. Kima, J. Watadaa, and W. Pedryczb. A dna-based algorithm for arranging weighted cliques. *Simulation Modelling Practice and Theory*, 2008. In press.
- [41] C. Komusiewicz, F. Hüffner, H. Moser, and R. Niedermeier. Isolation concepts for enumerating dense subgraphs. In *Computing and Combinatorics*, volume 4598 of *Lecture Notes in Computer Science*, pages 140–150. Springer, 2007.
- [42] J. Konc and D. Janezic. An improved branch and bound algorithm for the maximum clique problem. *Match*, 58:569–590, 2007.
- [43] A. B. Koster. Ein graphentheoretischer ansatz zum segmentieren von bildern. http://phobos.imib.rwth-aachen.de/lehmann/seminare/bv_2005-03.pdf, 2005.
- [44] G. Kumar and M. Garland. Visual exploration of complex time-varying graphs. *IEEE Transactions on Visualization and Computer Graphics*, 12(5):805–812, 2006.
- [45] D. Kumlander. On places suitable for applying ai principles in np-hard graph problems’ algorithms. In *AIAP’07: Proceedings of the 25th conference on Proceedings of the 25th IASTED International Multi-Conference*, pages 284–288, Anaheim, CA, USA, 2007. ACTA Press.
- [46] C. Larson. A note on critical independence reductions. *Bulletin of the Institute of Combinatorics and its Applications (ICA)*, September 2007.
- [47] S.-T. Li and S.-C. Kuo. Knowledge discovery in financial investment for forecasting and trading strategy through wavelet-based som networks. *Expert Systems with Applications*, 34:935–951, 2008.
- [48] Z. F. Li, H. Yang, and X. T. Deng. Optimal dynamic portfolio selection with earnings-at-risk. *Journal of Optimization Theory and Applications*, 132(3):459–473, 2007.
- [49] S.-H. Liao, H.-H. Ho, and H.-W. Lin. Mining stock category association and cluster on taiwan stock market. *Expert Systems with Applications*, 35:19–29, 2008.
- [50] Z. Liu and M. Mitzenmacher. Codes for deletion and insertion channels with segmented errors. In *ISIT2007*, pages 846–850, Nice, France, June 2007.
- [51] C. Ma, Y. Yang, and Z. Zhang. Constructing battery-aware virtual backbones in sensor networks. *International Conference on Parallel Processing (ICPP’05)*, pages 203–210, 2005.
- [52] C. Ma, Y. Yang, and Z. Zhang. Constructing battery-aware virtual backbones in wireless sensor networks. *EURASIP J. Wirel. Commun. Netw.*, 2007(1):22–22, 2007.
- [53] S. Mallakpour, M. Esteki, F. Rafiemanzelat, and T. Khayamian. Application of Factorial Design Method for the Optimization of Reaction Conditions Influencing Viscosity of Poly(amide-imide-ether-urethane)s Based PEG and L-Leucine. *Iranian Polymer Journal*, 16(1):21–29, 2007.

- [54] N. Meghanathan. An algorithm to determine the sequence of stable connected dominating sets in mobile ad hoc networks. *Advanced International Conference on Telecommunications and International Conference on Internet and Web Applications and Services (AICT-ICIW'06)*, page 32, 2006.
- [55] Meisel and Mattfeld. Synergies of data mining and operations research. *40th Annual Hawaii International Conference on System Sciences (HICSS'07)*, page 56c, 2007.
- [56] N. Memon, D. L. Hicks, H. L. Larsen, and M. A. Uqaili. Understanding the structure of terrorist networks. *International Journal of Business Intelligence and Data Mining*, 2(4):401 – 425, 2007.
- [57] N. Memon, K. C. Kristoffersen, D. L. Hicks, and H. L. Larsen. Detecting critical regions in covert networks: A case study of 9/11 terrorists network. *The Second International Conference on Availability, Reliability and Security (ARES'07)*, pages 861–870, 2007.
- [58] N. Memon and H. L. Larsen. Structural analysis and mathematical methods for destabilizing terrorist networks using investigative data mining. In *Advanced Data Mining and Applications*, volume 4093 of *Lecture Notes in Computer Science*, pages 1037–1048. Springer, 2006.
- [59] C.-M. Mi, S.-F. Liu, X. Wu, and H.-W. Zhang. The driver's shortest path decision-making model and its algorithm study based on grey number superiority relationship. In *International Conference on Machine Learning and Cybernetics*, pages 709 – 714, August 2006.
- [60] M. Morgan and V. Grout. Optimisation techniques for wireless networks. *Proceedings of 6th International Network Conference (INC 2006)*, pages 339–346, July 2006.
- [61] M. Morgan and V. Grout. Metaheuristics for wireless network optimisation. *The Third Advanced International Conference on Telecommunications (AICT'07)*, page 15, 2007.
- [62] A. Nagurney. Networks in finance. In D. Seese, C. Weinhardt, and F. Schlottmann, editors, *Handbook on Information Technology in Finance*. Springer, 2008.
- [63] A. Nagurney and Q. Qiang. Identification of critical nodes and links in financial networks with intermediation and electronic transactions. In E. J. Kontoghiorghes, B. Rustem, and P. Winker, editors, *Computational Methods in Financial Engineering*. Springer, 2007.
- [64] I. Nieuwoudt. *On the Maximum Degree Chromatic Number of a Graph*. PhD thesis, Stellenbosch University, 2007.
- [65] C. A. S. Oliveira. Discrete optimization models for cooperative communication in ad hoc networks. In *ADHOC-NOW*, volume 4104 of *Lecture Notes in Computer Science*, pages 73–86. Springer, 2006.
- [66] C.A.S. Oliveira. *Optimization Problems in Telecommunications and the Internet*. PhD thesis, University at Florida, 2004.

- [67] R. Opgen-Rhein and K. Strimmer. From correlation to causation networks: a simple approximate learning algorithm and its application to high-dimensional plant gene expression data. *BMC Systems Biology*, 1:37, 2007.
- [68] P. R. J. Östergård. Constructing combinatorial objects via cliques. In *Surveys in Combinatorics*, pages 57–82. Cambridge University Press, 2005.
- [69] S. Pasupuleti. Detection of protein complexes in protein interaction networks using n -clubs. In *Evolutionary Computation, Machine Learning and Data Mining in Bioinformatics*, volume 4973 of *Lecture Notes in Computer Science*, pages 153–164. Springer, 2008.
- [70] M. Pelillo and A. Torsello. Payoff-monotonic game dynamics and the maximum clique problem. *Neural Comput.*, 18(5):1215–1258, 2006.
- [71] Q. Qiang and A. Nagurney. A unified network performance measure with importance identification and the ranking of network components. *Optimization Letters*, 2(1):127–142, 2008.
- [72] M. Ravanbakhsh, Y. Abbasi-Yadkori, M. Abbaspour, and H. Sarbazi-Azad. A heuristic routing mechanism using a new addressing scheme. In *BIONETICS '06: Proceedings of the 1st international conference on Bio inspired models of network, information and computing systems*, page 37, New York, NY, USA, 2006. ACM.
- [73] S. Richter, M. Helmert, and C. Gretton. A stochastic local search approach to vertex cover. In *Advances in Artificial Intelligence*, volume 4667 of *Lecture Notes in Computer Science*, pages 412–426. Springer, 2007.
- [74] A. Rogachov. A dynamic model of risk calculation: methodological aspects and examples of practical applications. *Managing financial risks*, (3), 2006. In Russian.
- [75] C. Rostoker, A. Wagner, and H. Hoos. A parallel workflow for real-time correlation and clustering of high-frequency stock market data. *Proceedings - 21st International Parallel and Distributed Processing Symposium, IPDPS 2007; Abstracts and CD-ROM*, art. no. 4227944, 2007.
- [76] S. Sachdeva. Development of a branch and price approach involving vertex cloning to solve the maximum weighted independent set problem. Master's thesis, Texas A&M University, 2004.
- [77] J. Schäfer and K. Strimmer. A shrinkage approach to large-scale covariance matrix estimation and implications for functional genomics. *Statistical Applications in Genetics and Molecular Biology*, 4(1), 2005.
- [78] R. Shi, D. Zuo, Z. Zhang, and X. Yang. Fault-tolerant backbone set construction in ad hoc network. <http://scholar.ilib.cn/A-dianzixb200602020.html>, 2006. In Chinese.
- [79] I. Siomina. *Radio Network Planning and Resource Optimization: Mathematical Models and Algorithms for UMTS, WLANs, and Ad Hoc Networks*. PhD thesis, Linköping University, 2007.

- [80] P. St-Louis, B. Gendron, and J. Ferland. A penalty evaporation heuristic in a decomposition method for the maximum clique problem. Optimization Days, Montreal, Canada, 2004. http://www.iro.umontreal.ca/~gendron/Publications/PUB_0103.pdf.
- [81] F. Tardella. Connections between continuous and combinatorial optimization problems through an extension of the fundamental theorem of linear programming. *Electronic Notes in Discrete Mathematics*, 17:257–262, 2004.
- [82] N. Tezcan and W. Wang. TTS: a two-tiered scheduling mechanism for energy conservation in wireless sensor networks. *International Journal of Sensor Networks*, 1:213 – 228, 2006.
- [83] F. Theoleyre and F. Valois. Robustness and reliability for virtual topologies in wireless multihops access networks. In *Third Mediterranean Ad Hoc Networking Workshop (Med-HocNet'04)*, Bordum, Turkey, June 2004. IFIP.
- [84] F. Theoleyre and F. Valois. A virtual structure for hybrid network. In *IEEE Wireless Communications and Networking Conference (WCNC 2004)*, Atlanta, USA, March 2004. IEEE.
- [85] F. Theoleyre and F. Valois. About the self-stabilization of a virtual topology for self-organization in ad hoc networks. In *7th International Symposium on Self-Stabilizing Systems (SSS 2005)*, Barcelona, Spain, October 2005.
- [86] F. Theoleyre and F. Valois. Virtual structure routing in ad hoc networks. In *International Conference on Communication (ICC'2005)*, Seoul, Korea, May 2005. IEEE.
- [87] F. Theoleyre and F. Valois. A self-organization structure for hybrid networks. *Ad hoc networks*, 6(3):393–407, 2008. to appear, accepted for publication.
- [88] E. J. van Leeuwen. Approximation algorithms for unit disk graphs. In *Proceedings of the 31st International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2005)*, volume 3787 of *Lecture Notes in Computer Science*, page 351361. Springer, 2005.
- [89] G. Wang, L. Zhang, and J. Cao. A virtual circle-based clustering algorithm with mobility prediction in large-scale MANETs. In *Networking and Mobile Computing*, volume 3619 of *Lecture Notes in Computer Science*, pages 364–374. Springer, 2005.
- [90] J. Wang, Z. Zeng, and L. Zhou. Clan: An algorithm for mining closed cliques from large dense graph databases. *22nd International Conference on Data Engineering (ICDE'06)*, page 73, 2006.
- [91] B. Wu and X. Pei. A parallel algorithm for enumerating all the maximal k -plexes. In *Emerging Technologies in Knowledge Discovery and Data Mining*, volume 4819 of *Lecture Notes in Computer Science*, pages 476–483, 2007.
- [92] J. Wu. Localized algorithms and their applications in ad hoc wireless networks. In *Parallel and Distributed Processing and Applications*, volume 2745 of *Lecture Notes in Computer Science*, pages 245–263. Springer, 2003.

- [93] R. Xie, D. Qi, Y. Li, and J. Z. Wang. CDS-HG: A New Distributed MCDS Approximation Algorithm for Wireless Sensor Networks. In *International Conference on Wireless Communications, Networking and Mobile Computing (WiCom 2007)*, pages 2663–2666, September 2007.
- [94] C. Xu, Y. Xu, and J. Wu. On the minimization of the number of forwarding nodes for multicast in wireless ad hoc networks. In *Networking and Mobile Computing*, volume 3619 of *Lecture Notes in Computer Science*, pages 286–294. Springer, 2005.
- [95] X. Xu, J. Ma, and H. Wang. An improved simulated annealing algorithm for the maximum independent set problem. In *Intelligent Computing*, volume 4113 of *Lecture Notes in Computer Science*, pages 822–831. Springer, 2006.
- [96] X. Xu, Z. Tang, and J. Wang. An improved transiently chaotic neural network for the maximum independent set problem. *International Journal of Neural Systems*, 14(6):381 – 392, 2004.
- [97] S.-M. Yoon and K. Kim. Financial networks in the korean stock exchange market, 2005.
- [98] A. Youssef. *SALAM: A Scalable Anchor-Free Localization Algorithm for Wireless Sensor Networks*. PhD thesis, University of Maryland, 2006.
- [99] A. Youssef, M. Youssef, M. Younis, and A. Agrawala. The Overlapped K-hop (OK) Clustering Algorithm. Technical Report CS-TR-4735, University of Maryland, College Park, MD, July 2005.
- [100] D. Yuan. Distributed pruning algorithms based on neighborhood connectivity for broadcast communication in wireless ad hoc networks. In *IEEE Military Communications Conference (MILCOM 2005)*, volume 2, pages 1238– 1244, October 2005.
- [101] D. Yuan. Energy-efficient broadcasting in wireless ad hoc networks: performance benchmarking and distributed algorithms based on network connectivity characterization. In *MSWiM '05: Proceedings of the 8th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems*, pages 28–35, New York, NY, USA, 2005. ACM.
- [102] Z. Yuanyuan, X. Jia, and H. Yanxiang. Energy efficient distributed connected dominating sets construction in wireless sensor networks. In *IWCMC '06: Proceedings of the 2006 international conference on Wireless communications and mobile computing*, pages 797–802, New York, NY, USA, 2006. ACM.
- [103] Z. Yuanyuan, J. Xiaohua, and H. Yanxiang. A distributed algorithm for constructing energy-balanced connected dominating set in wireless sensor networks. *International Journal of Sensor Networks*, 2:68 – 76, 2007.
- [104] Z. Zeng, J. Wang, L. Zhou, and G. Karypis. Coherent closed quasi-clique discovery from large dense graph databases. In *KDD '06: Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 797–802, New York, NY, USA, 2006. ACM.

- [105] Z. Zeng, J. Wang, L. Zhou, and G. Karypis. Out-of-core coherent closed quasi-clique mining from large dense graph databases. *ACM Trans. Database Syst.*, 32(2):13, 2007.
- [106] D. Zhou, M.-T. Sun, and T.-H. Lai. A Timer-based Protocol for Connected Dominating Set Construction in IEEE 802.11 Multihop Mobile Ad Hoc Networks. *Symposium on Applications and the Internet (SAINT'05)*, pages 2–8, 2005.