(β): Publications Catalogue

Electronic versions for most of the publications (including submissions and work in preparation) can be found at `http://www2.cs.ucy.ac.cy/~mavronic/publications.htm`

1 Books

1.1 Thesis

(TH1) *M. Mavronicolas,* "Timing-Based Distributed Computation: Algorithms and Impossibility Results," Ph.D. Thesis in Computer Science, Division of Applied Sciences, Harvard University, Cambridge, Massachusetts, July 1992.

1.2 Textbooks

1.2.1 Appeared

(T2) *M. Mavronicolas,* "Distributed Systems," Greek Open University, September 2005. ISBN: 960-538-574-0 (`167 pages`, in Greek)

(T1) *M. Mavronicolas,* "Graph Theory," Greek Open University, December 2002. ISBN: 960-538-461-2 (`314 pages`, in Greek)

1.2.2 In Preparation (No Contract Yet)

(IPT2) *M. Mavronicolas,* "Theory of Computation," in preparation, December 2005. (`588 pages`, in Greek) Available (password protected) at:
`http://www2.cs.ucy.ac.cy/~mavronic/pdf/Books/Theory/theory.pdf`

(IPT1) *M. Mavronicolas,* "Distributed Computing with Shared Memory," in preparation, December 2005. (`277 pages`, in Greek) Available (password protected) at:
`http://www2.cs.ucy.ac.cy/~mavronic/pdf/Books/Dist/Distributed.pdf`

1.3 Research Monographs

1.3.1 In Preparation (Contract Signed and Publication Date Scheduled)

(RM2) *M. Mavronicolas* and *P. Spirakis,* "Algorithmic Game Theory," Springer-Verlag, Spring 2007, to appear.

(RM1) *C. Busch* and *M. Mavronicolas,* "Counting Networks," Springer-Verlag, December 2006, to appear.

1.4 Edited Volumes

(EV3) *P. Spirakis, M. Mavronicolas* and *S. Kontogiannis* eds., "Internet and Network Economics", *Proceedings of the 2nd International Workshop on Internet and Network Economics,* Volume 4286, Lecture Notes in Computer Science, December 2006. ISBN 3-540-68138-8 (401 pages).

(EV2) *M. Mavronicolas, M. Merritt* and *N. Shavit* eds., "Networks in Distributed Computing," *DIMACS Series in Discrete Mathematics and Theoretical Computer Science,* Volume 45, American Mathematical Society, November 1998. ISBN 0-8218-0992-X (179 pages).

(EV1) *M. Mavronicolas* and *Ph. Tsigas* eds., "Distributed Algorithms," *Proceedings of the 11th International Workshop on Distributed Algorithms,* Lecture Notes in Computer Science, Vol. 1320, Springer-Verlag, Saarbrücken, Germany, September 1997. ISBN 3-540-63575-0 (333 pages).

1.5 Journal Special Issues

(SI3) *S. Abramsky* and *M. Mavronicolas* guest editors, "Game Theory Meets Theoretical Computer Science," Special Issue, *Theoretical Computer Science* (Tracks A & B), Vol. 343, Nos. 1–2, October 2005. (282 pages)

(SI2) *M. Mavronicolas* guest editor, "Algorithmic Issues in Communication Networks," Special Issue, *Computing and Informatics* (formerly *Computers and Artificial Intelligence*), Vol. 20, No. 2, March 2001. (132 pages)

(SI1) *M. Mavronicolas* guest editor, "Distributed Algorithms," Special Issue, *Theoretical Computer Science* (Track A), Vol. 220. No. 1, June 1999. (319 pages).

1.6 Dictionaries

1.6.1 In Preparation (No Contract Yet)

(IPD1) *M. Mavronicolas*, "The Millennium Dictionary: English-Greek Dictionary of Theoretical Computer Science and Discrete Mathematics," in preparation, December 2005. (92 pages, in Greek) Available (password protected) at:
http://www2.cs.ucy.ac.cy/~mavronic/pdf/Books/Dictionary/dictionary.pdf

2 Research Articles

2.1 Book Chapters

(BC3) *M. Mavronicolas, V. Papadopoulou* and *P. Spirakis*, "Algorithmic Game Theory and Applications", in *Handbook of Applied Algorithms: Solving Scientific, Engineering, and*

Practical Problems, A. Nayak and I. Stojmenovic eds., John Wiley and Sons, October 2006, to appear.

(BC2) *C. Busch, N. Demetriou, M. Herlihy* and *M. Mavronicolas,* "A Combinatorial Characterization of Properties Preserved by Antitokens," *Current Trends in Theoretical Computer Science,* Vol. I: *Algorithms and Complexity, G. Paun, G. Rozenberg* and *A. Salomaa* eds., pp. 297–314, World Scientific Publishing, 2004.

(BC1) *M. Mavronicolas,* "Stability in Routing: Networks and Protocols," *Current Trends in Theoretical Computer Science,* Vol. I: *Algorithms and Complexity, G. Paun, G. Rozenberg* and *A. Salomaa* eds., pp. 435–450, World Scientific Publishing, 2004.

2.2 Journals

2.2.1 Appeared/Accepted

(J31) *D. Koukopoulos, M. Mavronicolas* and *P. Spirakis,* "Performance and Stability Bounds for Dynamic Networks," *Journal of Parallel and Distributed Computing,* December 2006, accepted.

(J30) *M. Mavronicolas, V. Papadopoulou, A. Philippou* and *P. Spirakis,* "A Network Game with Attackers and a Defender", *Algorithmica,* Special Issue with selected papers from the *16th Annual International Symposium on Algorithms and Computation* (*ISAAC 2005*) (Hainan, China, December 2005), *X. Deng* and *D. Du* guest eds., September 2006, accepted.

(J29) *M. Mavronicolas, P. Panagopoulou* and *P. Spirakis,* "Cost Sharing Mechanisms for Fair Pricing of Resource Usage", *Algorithmica,* Special Issue with selected papers from the *1st International Workshop on Internet and Network Economics* (*WINE 2005*) (Hong Kong, China, December 2005), *X. Deng* and *Y. Ye* guest eds., September 2006, accepted.

(J28) *M. Gairing, T. Lucking, M. Mavronicolas* and *B. Monien,* "The Price of Anarchy for Polynomial Social Cost", *Theoretical Computer Science,* accepted, July 2006.

(J27) *T. Lücking, M. Mavronicolas, B. Monien* and *M. Rode,* "A New Model for Selfish Routing," *Theoretical Computer Science,* invited paper in Special Issue titled "Algorithmic Aspects of Global Computing," *Ch. Kaklamanis* guest ed., accepted, December 2005.

(J26) *C. Busch, M. Magdon-Ismail, M. Mavronicolas* and *P. Spirakis,* "Direct Routing: Algorithms and Complexity", *Algorithmica,* Special Issue with selected papers from the *12th Annual European Symposium on Algorithms* (*ESA 2004*) (Bergen, Norway, September 2004), *S. Albers* and *T. Radzik* guest eds., Vol. 45, No. 1, pp.45-68, June 2006.

(J25) *M. Gairing, T. Lücking, M. Mavronicolas* and *B. Monien,* "The Price of Anarchy for Restricted Parallel Links," *Parallel Processing Letters,* Vol. 16, No. 1, pp. 117–132, March 2006.

(J24) *M. Mavronicolas* and *P. Spirakis,* "The Price of Selfish Routing," *Algorithmica,* accepted, December 2005.

(J23) *M. Gairing, T. Lucking, M. Mavronicolas, B. Monien* and *P. Spirakis,* "Structure and Complexity of Extreme Nash Equilibria," *Theoretical Computer Science,* Special Issue titled "Game Theory Meets Theoretical Computer Science," *M. Mavronicolas* and *S. Abramsky* guest eds., Vol. 343, Nos. 1-2, pp. 133–157, October 2005.

(J22) *D. Koukopoulos, M. Mavronicolas, S. Nikoletseas* and *P. Spirakis,* "The Impact of Network Structure on the Stability of Greedy Protocols," *Theory of Computing Systems,* Special Issue with selected papers from the *5th Italian Conference on Algorithms and Complexity (CIAC 2003)* (Rome, Italy, May 2003), *G. Persiano* guest ed., Vol. 39, No. 4, pp. 425-460, July 2005.

(J21) *P. Fatourou, M. Mavronicolas* and *P. Spirakis,* "Efficiency of Oblivious versus Nonoblivious Schedulers for Optimistic, Rate-Based Flow Control," *SIAM Journal on Computing,* Vol. 34, No. 5, pp. 1216-1252, July 2005.

(J20) *P. Fatourou, M. Mavronicolas* and *P. Spirakis,* "Max-Min Fair Flow Control Sensitive to Priorities," *Journal of Interconnection Networks,* Vol. 6, No. 2, pp. 85–114, June 2005.

(J19) *C. Busch, M. Mavronicolas,* and *P. Spirakis,* "The Cost of Concurrent, Low-Contention Read-Modify-Write," *Theoretical Computer Science,* Special Issue with selected papers from *10th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2003)* (Umeå, Sweden, June 2003), *J. F. Sibeyn* and *D. Peleg* guest eds., Vol. 333, No. 3, pp. 373–400, March 2005.

(J18) *C. Busch, M. Mavronicolas* and *P. Spirakis,* "An Application of the Monotone Linearizability Lemma," *Bulletin of the European Association for Theoretical Computer Science,* No. 85, pp. 70-80, February 2005.

(J17) *I. Chatzigiannakis, T. Dimitriou, M. Mavronicolas, S. Nikoletseas* and *P. Spirakis,* "A Comparative Study of Protocols for Efficient Data Propagation in Smart Dust Networks," *Parallel Processing letters,* Special Issue with invited papers from *9th European Conference on Parallel Processing (Euro-Par 2003),* (Klagenfurt, Austria, August 2003), *H. Kosch, L. Böszörményi* and *H. Hellwagner* guest eds., Vol. 13, No. 4, pp. 615–627, November 2003.

(J16) *E. Koutsoupias, M. Mavronicolas* and *P. Spirakis,* "Approximate Equilibria and Ball Fusion," *Theory of Computing Systems,* Special Issue with invited papers from *9th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2002)* (Andros, Greece, June 2002), *Ch. Kaklamanis* and *L. Kirousis* guest eds., Vol. 36, No. 6, pp. 683–693, November 2003.

(J15) *M. Mavronicolas* and *N. Papadakis,* "Trade-off Results for Connection Management," *Theoretical Computer Science,* Vol. 290, No. 1, pp. 1–57, January 2003.

(J14) *C. Busch, N. Demetriou, M. Herlihy,* and *M. Mavronicolas,* "Threshold Counters with Increments and Decrements," *Theoretical Computer Science,* Vol. 270, Nos. 1 & 2, pp. 811–826, January 2002.

(J13) *M. Mavronicolas,* "Stability in Routing: Networks and Protocols," *Bulletin of the European Association for Theoretical Computer Science,* No. 74, pp. 119–133, June 2001.

(J12) *M. Mavronicolas,* "Distributed Computing Theory To Date," *Bulletin of the European Association for Theoretical Computer Science,* No. 73, pp. 99–106, February 2001.

(J11) *W. Aiello, C. Busch, M. Herlihy, M. Mavronicolas, N. Shavit* and *D. Touitou,* "Supporting Increment and Decrement Operations in Balancing Networks," *Chicago Journal of Theoretical Computer Science,* 2000-4, December 14, 2000 (electronic).

(J10) *C. Busch, N. Demetriou, M. Herlihy* and *M. Mavronicolas,* "A Combinatorial Characterization of Properties Preserved by Antitokens," *Bulletin of the European Association for Theoretical Computer Science,* Number 71, pp. 114–132, June 2000.

(J9) *M. Mavronicolas* and *D. Roth,* "Linearizable Read/Write Objects," *Theoretical Computer Science,* Vol. 220, No. 1, pp. 267–319, June 1999.

(J8) *M. Mavronicolas,* "Timing-Based Connection Management," in *M. Mavronicolas, M. Merritt* and *N. Shavit,* eds., "Networks in Distributed Computing," *DIMACS Series in Discrete Mathematics and Theoretical Computer Science,* Volume 45, pp. 113–134, American Mathematical Society, October 1998. (In memory of late Professor Paris C. Kanellakis.)

(J7) *M. Mavronicolas,* "A q-Analog of Approximate Inclusion-Exclusion," *Advances in Applied Mathematics,* Vol. 20, No. 1, pp. 108–129, January 1998.

(J6) *C. Busch* and *M. Mavronicolas,* "Impossibility Results for Weak Threshold Networks," *Information Processing Letters,* Vol. 63, No. 2, pp. 85–90, July 1997.

(J5) *M. Mavronicolas,* "Balancing Networks: State-of-the-Art," *Information Sciences: An International Journal,* invited paper in Special Issue titled "Load Balancing," *C. Nikolau* and *L. Richter* guest eds., Vol. 97, Nos. 1/2, pp. 125–157, March 1997.

(J4) *C. Busch* and *M. Mavronicolas,* "A Combinatorial Treatment of Balancing Networks," *Journal of the ACM,* Vol. 43, No. 5, pp. 794–839, September 1996.

(J3) *C. Busch* and *M. Mavronicolas,* "Proving Correctness for Balancing Networks," in *P. M. Pardalos, K. G. Ramakrishnan* and *M. G. C. Resende,* eds., "Parallel Processing of Discrete Optimization Problems," *DIMACS Series in Discrete Mathematics and Theoretical Computer Science,* Volume 22, pp. 1–32, American Mathematical Society, July 1995.

(J2) *H. Attiya* and *M. Mavronicolas,* "Efficiency of Semi-Synchronous versus Asynchronous Networks," *Mathematical Systems Theory* (currently *Theory of Computing Systems*), Vol. 27, No. 6, pp. 547–571, November/December 1994.

(J1) *M. Mavronicolas,* "Efficiency of Semi-Synchronous versus Asynchronous Systems: Atomic Shared Memory," *Computers and Mathematics with Applications,* Vol. 25, No. 2, pp. 81–91, January 1993.

2.2.2 Submissions

(JS8) *M. Gairing, T. Lucking, M. Mavronicolas, B. Monien* and M. Rode, "Nash Equilibria in Discrete Routing Games with Convex Latency Functions", submitted to *Journal of Computer and System Sciences.*

(JS7) *M. Mavronicolas, M. Merritt* and *G. Taubenfeld,* "Sequentially Consistent versus Linearizable Counting Networks", submitted to *Distributed Computing.*

(JS6) *C. Busch* and *M. Mavronicolas,* "An Efficient Counting Network," submitted to *SIAM Journal on Discrete Mathematics.*

(JS5) *C. Busch, M. Magdon-Ismail* and *M. Mavronicolas,* "Universal Bufferless Packet Switching," submitted to *SIAM Journal on Computing.*

(JS4) *C. Busch, M. Magdon-Ismail* and *M. Mavronicolas,* "Efficient Bufferless Packet Switching on Trees and Leveled Networks," submitted to *Journal of Parallel and Distributed Computing.*

(JS3) *M. Mavronicolas,* and *L. Michael,* "A Substitution Theorem on Graceful Trees and its Applications," submitted to *Discrete Mathematics.*

(JS2) *D. Koukopoulos, M. Mavronicolas* and *P. Spirakis,* "The Increase of the Instability of Networks due to Quasi-Static Link Capacities," submitted to *Theoretical Computer Science.*

(JS1) *M. Mavronicolas,* "A Bound on the Rounds to Reach Lattice Agreement," submitted to *Information Processing Letters,* currently under revision.

2.3 Conference Proceedings (Refereed)

2.3.1 Extended Abstracts

(C50) *M. Mavronicolas, L. Michael* and *P. Spirakis,* "Computing on a Partially Eponymous Ring", *Proceedings of the 10th International Conference On Principles Of Distributed Systems (OPODIS 2006), A. A. Shvartsman* ed., pp. 380–394, Vol. 4305, Lecture Notes in Computer Science, Springer-Verlag, Bordeaux & Saint-Emilion, France, December 2006.

(C49) *M. Mavronicolas, V. Papadopoulou, G. Persiano, A. Philippou* and *P. Spirakis,* "The Price of Defense and Fractional Matchings", *Proceedings of the 8th International Conference on Distributed Computing and Networking (ICDCN 2006),* Guwahati, India, December 2006, to appear.

(C48) *M. Mavronicolas, V. Papadopoulou, A. Philippou* and *P. Spirakis,* "A Network Game with Attackers and a Defender: A Survey", *Proceedings of the 2nd European Conference on Complex Systems 2006 (ECCS 2006),* Oxford, Great Britain, September 2006, to appear.

(C47) *M. Mavronicolas, L. Michael, V. Papadopoulou, A. Philippou* and *P. Spirakis,* "The Price of Defense", *Proceedings of the 31st International Symposium on Mathematical Foundations of Computer Science (MFCS 2006), R. Kralovic* and *P. Urzyczyn* eds., pp. 717–728, Vol. 4162, Lecture Notes in Computer Science, Springer-Verlag, Bratislava, Slovakia, August/September 2006.

(C46) *M. Gelastou, M. Mavronicolas, V. Papadopoulou, A. Philippou* and *P. Spirakis,* "The Power of the Defender", *CD-ROM Proceedings of the 2nd International Workshop on Incentive-Based Computing (IBC 2006),* in conjunction with the *26th IEEE International Conference on Distributed Computing (ICDCS 2006),* Lisboa, Portugal, July 2006. (6 pages)

(C45) *M. Mavronicolas, V. Papadopoulou, A. Philippou* and *P. Spirakis,* "A Network Game with Attacker and Protector Entities," *Proceedings of the 16th Annual International Symposium on Algorithms and Computation (ISAAC 2005), X. Deng* and *D. Du* eds., pp. 288–297, Vol. 3827, Lecture Notes in Computer Science, Springer-Verlag, Hainan, China, December 2005.

(C44) *R. Elsässer, M. Gairing, T. Lücking, M. Mavronicolas* and *B. Monien,* "A Simple Graph-Theoretic Model for Selfish Restricted Scheduling," *Proceedings of the First Workshop on Internet and Network Economics (WINE 2005), X. Deng* and *Y. Ye* eds., pp. 195-209, Vol. 3828, Lecture Notes in Computer Science, Springer-Verlag, Hong Kong, China, December 2005.

(C43) *M. Mavronicolas, P. Panagopoulou* and *P. Spirakis,* "A Cost Mechanism for Fair Pricing of Resource Usage," *Proceedings of the First Workshop on Internet and Network Economics (WINE 2005), X. Deng* and *Y. Ye* eds., pp. 210–224, Vol. 3828, Lecture Notes in Computer Science, Springer-Verlag, Hong Kong, China, December 2005.

(C42) *M. Mavronicolas, V. Papadopoulou, A. Philippou* and *P. Spirakis,* "A Graph-Theoretic Network Security Game," *Proceedings of the First Workshop on Internet and Network Economics (WINE 2005), X. Deng* and *Y. Ye* eds., pp. 969–978, Vol. 3828, Lecture Notes in Computer Science, Springer-Verlag, Hong Kong, China, December 2005.

(C41) *C. Busch, M. Mavronicolas* and *P. Spirakis,* "Monotone Operations and Monotone Groups," *Proceedings of the 1st International Conference on Algebraic Informatics 2005, S. Bozapalidis, A. Kalampakas* and *G. Rahonis* eds., pp. 175-195, Aristotle University of Thessaloniki, Thessaloniki, Greece, October 2005.

(C40) *C. Busch, M. Magdon-Ismail* and *M. Mavronicolas,* "Universal Bufferless Routing," *Proceedings of the 2nd International Workshop on Approximation and Online Algorithms (WAOA 2004), G. Persiano* and *R. Solis-Oba* eds., pp. 239-252, Vol. 3351, Lecture Notes in Computer Science, Springer-Verlag, Bergen, Norway, September 2004.

(C39) *C. Busch, M. Magdon-Ismail, M. Mavronicolas* and *P. Spirakis*, "Direct Routing: Algorithms and Complexity," *Proceedings of the 12th Annual European Symposium on Algorithms (ESA 2004), S. Albers* and *T. Rudzik* eds., pp. 134–145, Vol. 3221, Lecture Notes in Computer Science, Springer-Verlag, Bergen, Norway, September 2004.

(C38) *M. Gairing, T. Lücking, M. Mavronicolas* and *B. Monien*, "The Price of Anarchy for Polynomial Social Cost," *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science (MFCS 2004), J. Fiala, V. Koubek* and *J. Kratochvil* eds., pp. 574–685, Vol. 3153, Lecture Notes in Computer Science, Springer-Verlag, Prague, Czech Republic, August 2004.

(C37) *C. Busch, M. Magdon-Ismail, M. Mavronicolas* and *R. Wattenhofer*, "Near-Optimal Hot-Potato Routing on Trees," *Proceedings of the 10th European Conference on Parallel Processing (Euro-Par 2004), M. Danelutto, M. Vanneschi* and *D. Laforenza* eds., pp. 820-827, Vol. 3149, Lecture Notes in Computer Science, Springer-Verlag, Pisa, Italy, August/September 2004.

(C36) *M. Gairing, T. Lücking, M. Mavronicolas, B. Monien* and *M. Rode*, "Nash Equilibria in Discrete Routing Games with Convex Latency Functions," *Proceedings of the 31st International Colloquium on Automata, Languages and Programming (ICALP 2004), J. Diaz, J. Karhumäki, A. Lepistö* and *D. Sannella* eds., pp. 645–657, Vol. 3142, Springer-Verlag, Lecture Notes in Computer Science, Turku, Finland, July 2004.

(C35) *M. Gairing, T. Lücking, M. Mavronicolas* and *B. Monien*, "Computing Nash Equilibria for Scheduling on Restricted Parallel Links," *Proceedings of the 36th Annual ACM Symposium on Theory of Computing (STOC 2004),* pp. 613–622, Chicago, Illinois, June 2004.

(C34) *D. Koukopoulos, M. Mavronicolas* and *P. Spirakis*, "Performance and Stability Bounds for Dynamic Networks," *Proceedings of the 7th International Symposium on Parallel Architectures, Algorithms and Networks (ISPAN 2004),* pp. 239–246, Hong Kong, SAR, China, May 2004.

(C33) *T. Lücking, M. Mavronicolas, B. Monien* and *M. Rode*, "A New Model for Selfish Routing," *Proceedings of the 21st International Symposium on Theoretical Aspects of Computer Science (STACS 2004), V. Diekert* and *M. Habib* eds., pp. 547–558, Vol. 2996, Lecture Notes in Computer Science, Springer-Verlag, Montpellier, France, March 2004.

(C32) *M. Gairing, T. Lücking, M. Mavronicolas, B. Monien* and *P. Spirakis*, "Extreme Nash Equilibria," *Proceedings of the 8th Italian Conference on Theoretical Computer Science (ICTCS 2003), C. Blundo* and *C. Laneve* eds., pp. 1–20, Vol. 2841, Lecture Notes in Computer Science, Springer-Verlag, Bertinoro, Italy, October 2003.

(C31) *I. Chatzigiannakis, T. Dimitriou, M. Mavronicolas, S. Nikoletseas* and *P. Spirakis*, "A Comparative Study of Protocols for Efficient Data Propagation in Smart Dust Networks," *Proceedings of the 9th European Conference on Parallel Processing (Euro-Par 2003), H. Kosch, L. Böszörményi* and *H. Hellwagner* eds., pp. 1003–1016, Vol. 2790, Lecture

Notes in Computer Science, Springer-Verlag, Klagenfurt, Austria, August 2003. (NOTE: Accepted as **distinguished paper**.)

(C30) *T. Lücking, M. Mavronicolas, B. Monien, M. Rode, P. Spirakis* and *I. Vrto,* "Which is the Worst-case Nash Equilibrium?," *Proceedings of the 26th International Symposium on Mathematical Foundations of Computer Science (MFCS 2003), B. Rovan* and *P. Vojtáš* eds., pp. 551–561, Vol. 2747, Lecture Notes in Computer Science, Springer-Verlag, Bratislava, Slovak Republic, August 2003.

(C29) *D. Koukopoulos, M. Mavronicolas* and *P. Spirakis,* "Instability of Networks with Quasi-Static Link Capacities," *Proceedings of the 10th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2003), J. F. Sibeyn* ed., pp. 179–194, *Proceedings in Informatics 17,* Carleton Scientific Press, Umea, Sweden, June 2003.

(C28) *C. Busch, M. Mavronicolas,* and *P. Spirakis,* "The Cost of Concurrent, Low-Contention Read-Modify-Write," *Proceedings of the 10th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2003), J. F. Sibeyn* ed., pp. 57–72, *Proceedings in Informatics 17,* Carleton Scientific Press, Umea, Sweden, June 2003.

(C27) *D. Koukopoulos, M. Mavronicolas, S. Nikoletseas* and *P. Spirakis,* "The Impact of Network Structure on the Stability of Greedy Protocols," *Proceedings of the 5th Italian Conference on Algorithms and Complexity (CIAC 2003), R. Petreschi, G. Persiano* and *R. Silvestri* eds., pp. 251–263, Vol. 2653, Lecture Notes in Computer Science, Springer-Verlag, Rome, Italy, May 2003.

(C26) *D. Koukopoulos, M. Mavronicolas, S. Nikoletseas* and *P. Spirakis,* "On the Stability of Compositions of Universally Stable, Greedy Contention-Resolution Protocols," *Proceedings of the 16th International Symposium on DIStributed Computing (DISC 2002), D. Malkhi* ed., pp. 88–102, Vol. 2508, Lecture Notes in Computer Science, Springer-Verlag, Toulouse, France, October 2002.

(C25) *E. Koutsoupias, M. Mavronicolas,* and *P. Spirakis,* "Approximate Equilibria and Ball Fusion," *Proceedings of the 9th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2002), Ch. Kaklamanis* and *L. M. Kirousis* eds., pp. 223–235, *Proceedings in Informatics 13,* Carleton Scientific Press, Andros, Greece, June 2002.

(C24) *D. Fotakis, S. Kontogiannis, E. Koutsoupias, M. Mavronicolas* and *P. Spirakis,* "The Structure and Complexity of Nash Equilibria for a Selfish Routing Game," *Proceedings of the 29th International Colloquium on Automata, Languages and Programming (ICALP 2002), P. Widmayer, F. Triguero, R. Morales, M. Hennessy, S. Eidenbenz* and *R. Conejo* eds., pp. 123–134, Vol. 2380, Lecture Notes in Computer Science, Springer-Verlag, Málaga, Spain, July 2002.

(C23) *M. Mavronicolas, A. Mouskos* and *P. Spirakis,* "The Cost of Lack of Coordination in Distributed Network Routing," *Proceedings of the 2nd International Workshop on Approxima-*

tion and Randomized Algorithms in Communication Networks (ARACNE 2001), Ch. Kaklamanis ed., pp. 65–84, Proceedings in Informatics 12, Carleton scientific, Aaarhus, Denmark, August 2001.

(C22) *M. Mavronicolas* and *P. Spirakis,* "The Price of Selfish Routing," *Proceedings of the 33rd Annual ACM Symposium on Theory of Computing (STOC 2001),* pp. 510–519, July 2001.

(C21) *C. Busch, N. Demetriou, M. Herlihy* and *M. Mavronicolas,* "A Combinatorial Characterization of Properties Preserved by Antitokens," *Proceedings of the 6th European Conference on Parallel Processing (Euro-Par 2000). A. Bode, T. Ludwig, W. Karl* and *R. Wismüller* eds., pp. 575–582, Vol. 1900, Lecture Notes in Computer Science, Springer-Verlag, Munich, Germany, August/September 2000.

(C20) *M. Eleftheriou* and *M. Mavronicolas,* "Linearizability in the Presence of Drifting Clocks and Under Different Delay Assumptions," *Proceedings of the 13th International Symposium on DIStributed Computing (DISC 1999)* (formerly *International Workshop on Distributed Algorithms*), *P. Jayanti* ed., pp. 327–341, Vol. 1693, Lecture Notes in Computer Science, Springer-Verlag, Bratislava, Slovakia, September 1999.

(C19) *S. Georgiades, M. Mavronicolas* and *P. Spirakis,* "Optimal, Distributed Decision-Making: The Case of No Communication," *Proceedings of the 12th International Symposium on Fundamentals of Computation Theory (FCT 1999), G. Ciobanu* and *G. Paun* eds., pp. 293–303, Vol. 1684, Lecture Notes in Computer Science, Springer-Verlag, Iasi, Romania, August/September 1999.

(C18) *C. Busch, N. Demetriou, M. Herlihy* and *M. Mavronicolas,* "Threshold Counters with Increments and Decrements," *Proceedings of the 6th International Colloquium on Structural Information and Communication Complexity (SIROCCO 1999), C. Gavoille, J.-C. Bermond* and *A. Raspalid* eds., pp. 47–61, Proceedings in Informatics 5, Carleton Scientific, Lacanau, France, June/July 1999.

(C17) *M. Mavronicolas, M. Merritt,* and *G. Taubenfeld,* "Sequentially Consistent versus Linearizable Counting Networks," *Proceedings of the 18th Annual ACM Symposium on Principles of Distributed Computing (PODC 1999),* pp. 133–142, Atlanta, Georgia, May 1999.

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