

Publications

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Publications in international journals and paper collections (no conference proceedings)

- J1 L.Kirousis and G. Kontogeorgiou. “The *problème des ménages* revisited,” To appear in: *The Mathematical Gazette*, 2018. [pdf](#)
- J2 I. Giotis, L.M.Kirousis, K.I. Psaromiligkos, and D.M. Thilikos: “Acyclic edge coloring through the Lovász Local Lemma,” *Theor. Comp. Sci.* 665 (2017) 40–50. [pdf](#)
- J3 J. Díaz, I. Giotis, L.M. Kirousis, E. Markakis, and M.J. Serna: “On the stability of generalized second price auctions with budgets,” *Theory of Computing Systems*, 59(1) (2016) 1–23. [pdf](#)
- J4 J. Díaz, A.C. Kaporis, L.M. Kirousis, G.D. Kemkes, X. Pérez, and N. Wormald, “On the chromatic number of a random 5-regular graph,” *Journal of Graph Theory* 61(3) (2009) 157–191. [pdf](#)
- J5 J. Díaz, L.M. Kirousis, D. Mitsche, and X. Pérez-Giménez, “On the satisfiability threshold of formulas with three literals per clause,” *Theor. Comput. Sci.* 410(30-32) (2009) 2920–2934. [pdf](#)
- J6 A.C. Kaporis, L.M. Kirousis, Y.C. Stamatiou, M. Vamvakari, and M. Zito, “The unsatisfiability threshold revisited,” *Discrete Applied Mathematics* 155(12) (2007) 1525–1538. [pdf](#)
- J7 G. Georgiadis and L.M. Kirousis, “Lightweight centrality measures in networks under attack,” *ComPlexUs: Modelling in Systems Biology, Social, Cognitive and Information Sciences* 3 (2006) 147–157. [pdf](#)
- J8 A.C. Kaporis, L.M. Kirousis, and Y.C. Stamatiou, “How to prove conditional randomness using the Principle of Deferred Decisions,” in: A.G. Percus, G. Istrate and C. Moore, eds., *Computational Complexity and Statistical Physics* (Oxford University Press, New York, 2006) 179–194. [ps](#)
- J9 L.M. Kirousis, Y.C. Stamatiou, and M. Zito, “The unsatisfiability threshold conjecture: the techniques behind upper bound improvements,” in: A.G. Percus, G. Istrate and C. Moore, eds., *Computational Complexity and Statistical Physics* (Oxford University Press, New York, 2006) 159–178. [pdf](#)
- J10 A.C. Kaporis, L.M. Kirousis, and E.G. Lalas, “The probabilistic analysis of a greedy satisfiability algorithm,” *Random Structures and Algorithms* 28(4) (2006) 444–480. [pdf](#)
- J11 L.M. Kirousis and Ph.G. Kolaitis, “A dichotomy in the complexity of propositional circumscription,” *Theory of Computing Systems* 37(6) (2004) 695–715. [pdf](#)
- J12 L.M. Kirousis and Ph.G. Kolaitis, “The complexity of minimal satisfiability problems,” *Information and Computation* 187 (2003) 20–39. [pdf](#)

- J13 L.M. Kirousis, E. Kranakis, D. Krizanc, and Y.C. Stamatiou, “Locating information with uncertainty in fully interconnected networks: the case of nondistributed memory”, *Networks* 42(3) (2003) 169–180. [pdf](#)
- J14 P. Bose, Ch. Kaklamanis, L.M. Kirousis, E. Kranakis, D. Krizanc, and D. Peleg, “Station layouts in the presence of location constraints,” *Journal of Interconnection Networks* 3(1&2) (2002) 1–17. [pdf](#)
- J15 A.C. Kaporis, L.M. Kirousis, E. Kranakis, D. Krizanc, Y.C. Stamatiou, and E.C. Stavropoulos, “Locating information with uncertainty in fully interconnected networks with applications to world wide web information retrieval,” *The Computer Journal* 44(4) (2001) 221–229. [pdf](#)
- J16 L.M. Kirousis, Y.C. Stamatiou, and M. Vamvakari, “Upper bounds and asymptotics for the q -binomial coefficients,” *Studies in Applied Mathematics* 107(1) (2001) 43–62. [pdf](#)
- J17 D. Achlioptas, L.M. Kirousis, E. Kranakis, and D. Krizanc, “Rigorous results for random $(2 + p)$ -SAT,” *Theoretical Computer Science* 265 (2001) 109–129. [pdf](#)
- J18 D. Achlioptas, L.M. Kirousis, E. Kranakis, D. Krizanc, M.S.O. Molloy, and Y.C. Stamatiou, “Random constraint satisfaction: a more accurate picture,” *Constraints* 6(4) (2001) 329–344. [pdf](#)
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- J20 L.M. Kirousis, E. Kranakis, D. Krizanc, and A. Pelc, “Power consumption in packet radio networks,” *Theoretical Computer Science* 243 (2000) 289–305. [pdf](#)
- J21 L.M. Kirousis, E. Kranakis, D. Krizanc, and Y. Stamatiou, “Approximating the unsatisfiability threshold of random formulas,” *Random Structures and Algorithms* (1998) 253–269. Preliminary related results appeared in: L.M. Kirousis, E. Kranakis, and D. Krizanc, “A better upper bound for the unsatisfiability threshold,” in: B. Du, J. Gu and P.M. Pardalos (eds.) *Satisfiability Problem: Theory and Applications*, *DIMACS Series in Discrete Mathematics and Theoretical Computer Science* 35 (American Mathematical Society, 1997) 643–648. [pdf](#)
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- J24 L.M. Kirousis and D.M. Thilikos, “The linkage of a graph,” *SIAM J. Computing* 25:3 (1996) 626–647. [pdf](#)
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- J26 N. Dendris, I. Kalafatis and L.M. Kirousis, “An efficient parallel algorithm for geometrically characterizing drawings of a class of 3-D objects,” *Journal of Mathematical Imaging and Vision* 4 (1994) 375–387. [pdf](#)

- J27 L. M. Kirousis, P. Spirakis and Ph. Tsigas, “Reading many variables in one atomic operation: solutions with linear complexity,” *IEEE Transactions in Parallel and Distributed Systems* 5 (1994) 688–696. [pdf](#)
- J28 L. Kirousis, M. Serna and P. Spirakis, “The parallel complexity of the graph connectivity problem,” *SIAM J. Computing* 22 (1993), 573–586. [pdf](#)
- J29 H. Jung, L.M. Kirousis and P. Spirakis, “Lower bounds and efficient algorithms for multiprocessor scheduling of DAGs with communication delays,” *Information and Computation* 5 (1993) 94–104. [pdf](#)
- J30 L. M. Kirousis, “Fast parallel constraint satisfaction,” *Artificial Intelligence* 64 (1993) 147–160 (Research Note). [pdf](#)
- J31 D. Kavadias, L.M. Kirousis and P. Spirakis, “The complexity of the reliable connectivity problem,” *Information Processing Letters* 39 (1991) 245–252. [pdf](#)
- J32 L.M. Kirousis, “On effectively labeling planar projections of polyhedra,” *IEEE Transactions on Pattern Analysis and Machine Intelligence* 12:2 (1990) 123–130. [pdf](#)
- J33 L.M. Kirousis and E. Kranakis, “A brief survey of concurrent readers and writers,” *CWI Quarterly* 2 (1989) 307–330.
- J34 L.M. Kirousis and C.H. Papadimitriou, “The complexity of recognizing polyhedral scenes,” *Journal of Computer and System Sciences* 37 (1988) 14–38. [pdf](#)
- J35 L.M. Kirousis and C.H. Papadimitriou, “Searching and pebbling,” *Theoretical Computer Science* 47 (1986) 205–218. [pdf](#)
- J36 L.M. Kirousis and C.H. Papadimitriou, “Interval graphs and searching,” *Discrete Mathematics* 55 (1985) 181–184. [pdf](#)
- J37 L.M. Kirousis, “A selection theorem,” *J. Symbolic Logic* 46 (1980) 437–438. [pdf](#)
- J38 L. Harrington, L. Kirousis, and J. Schlipf, “A generalized Kleene-Moschovakis theorem,” *Proceedings of the American Mathematical Society* 68 (1978) 209–213. [pdf](#)

Publications in electronic journals

- EJ1 A.C Kaporis, L.M. Kirousis, and Y.C. Stamatiou, “A note on the non-colorability threshold of a random graph,” *The Electronic Journal of Combinatorics* 7(1) (2000) R29.

Articles in encyclopedias

- En1 A.C. Kaporis and L.M. Kirousis, “Thresholds of random k -SAT,” *Encyclopedia of Algorithms* (Springer 2016, 2236–2239).

Publications in conference proceedings¹

- C1 L. M. Kirousis, Ph.G. Kolaitis, and J. Livieratos. “Aggregation of votes with multiple positions on each issue,” *RAMiCS 2017, 16th International Conference in Relational and Algebraic Methods in Computer Science* (Springer, L.N. Computer Science, 2017, 209–225). [pdf](#)

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- C2 I. Giotis, L.M. Kirousis, K.I. Psaromiligkos, and D.M. Thilikos. “An alternative proof for the constructive asymmetric Lovász local lemma,” *CTW 2015, 3th Cologne Twente Workshop on Graphs and Combinatorial Optimization* (Conference proceedings, 2015, 89–92). [pdf](#)
- C3 I. Giotis, L.M. Kirousis, K.I. Psaromiligkos, and D. M. Thilikos. “On the algorithmic Lovász local lemma and acyclic edge coloring,” *ANALCO 2015, Proceedings of the Twelfth Workshop on Analytic Algorithmics and Combinatorics*, (SIAM, 2015, 16–25). [pdf](#)
- C4 J. Díaz, I. Giotis, L. M. Kirousis, E. Markakis, and M.J. Serna. “On the stability of generalized second price auctions with budgets,” *LATIN 2014, 11th Latin American Symposium on Theoretical Informatics* (Springer, L.N. Computer Science, 2014, 695–706).
- C5 L.M. Kirousis. “Coloring random graphs: A short survey,” *SYNASC 2009, 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing* (IEEE Computer Society, 2009, 8).
- C6 J. Díaz, L.M. Kirousis, D. Mitsche, and X. Pérez-Giménez, “A new upper bound for 3-SAT,” *FSTTCS 2008, IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science* (Leibniz International Proceedings in Informatics, 2008, vol. 2, 163–164). [pdf](#)
- C7 I. Chatzigiannakis, L.M. Kirousis, and Th. Stratiotis, “Probabilistic protocols for fair communication in wireless sensor networks,” *Proceedings of ALGOSENSORS 2008* (Springer, L.N. Computer Science, 2008, 100–110). [pdf](#)
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- C10 J. Díaz, A. Kaporis, L.M. Kirousis, and X. Pérez, “Partitioning networks into classes of mutually isolated nodes,” *Proceedings of ECCS 2005, European Conference on Complex Systems*,
- C11 J. Díaz, G. Grammatikopoulos, A.C. Kaporis, L.M. Kirousis, X. Pérez, and D.G. Sotiropoulos, “5-Regular Graphs are 3-Colorable with Positive Probability,” *ESA 2005, 13th Annual European Symposium on Algorithms* (Springer, L.N. Computer Science, 2005, 215–225).
- C12 A.C. Kaporis, L.M. Kirousis, E.I. Politopoulou, and P.G. Spirakis, “Experimental Results for Stackelberg Scheduling Strategies,” *WEA 2005, 4th International Workshop on Experimental and Efficient Algorithms*, (Springer, L.N. Computer Science, 2005, 77–88).
- C13 A.C. Kaporis, L.M. Kirousis, and E.G. Lalas, “Selecting Complementary Pairs of Literals,” Workshop on Typical Case Complexity and Phase Transitions, affiliated with LICS 2003, the 16th Annual IEEE Symposium on Logic in Computer Science, *Electronic Notes in Discrete Mathematics* 16 (2003) 47–70.

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- C15 L.M. Kirousis and Ph.G. Kolaitis, “On the complexity of model checking and inference in minimal models: Extended abstract,” Invited paper, *LPNMR 2001, Logic Programming and Nonmonotonic Reasoning, 6th International Conference, Proceedings*, (Springer, L.N. Artificial Intelligence, 2001, 42–53).
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- C18 L.M. Kirousis and Ph.G. Kolaitis, “The complexity of minimal satisfiability problems,” *STACS 2000, 18th Annual Symposium on Theoretical Aspects of Computer Science*, (Springer, L.N. Computer Science, 2000, 407–418).
- C19 L.M. Kirousis, E. Kranakis, D. Krizanc, and Y.C. Stamatiou, “Locating information with uncertainty in fully interconnected networks,” *DISC 2000, Distributed Computing, 14th International Conference*, (Springer, L.N. Computer Science, 2000, 283–296).
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- C43 L.M. Kirousis and C.H. Papadimitriou, “The complexity of recognizing polyhedral scenes,” *FOCS ’85, 26th IEEE Annual Symposium on Foundations of Computer Science* (IEEE Computer Science Press, 1985, 175–185).
- C44 L.M. Kirousis and E. Papadopetrakis, “Truth and objectivity in mathematics,” in: E. Bitsakis (ed.), *The Concept of Physical Reality* (Zacharopoulos, 1983, 217–224).

Books

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- J. Díaz, L. Kirousis, L. Ortiz-Gracia, and M. Serna (eds.), *Research Perspectives CRM Barcelona, Extended Abstracts Summer 2015* (Springer, Birkhäuser Mathematics, 2015).
- Ch. Kaklamanis and L. Kirousis (eds.), *Sirocco 9, The 9th International Colloquium on Structural Information and Communication Complexity* (Proceedings in Informatics, Carleton Scientific, 2002).
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- S. Toueg, P. Spirakis, and L.M. Kirousis (eds.), *Proceedings of the 5th International Workshop on Distributed Algorithms, WDAG 1991* (Springer, L.N. Computer Science, 1992).

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- Ε. Κυρούσης, Χ. Μπούρας, Ι. Σταματίου και Π. Σπυράκης, *Εισαγωγή στους Γράφους: Θεωρία, Προβλήματα και Λύσεις* (Εκδόσεις ΕΑ-ΙΤΥ, Αθήνα, 1999).