



Curriculum Vitae

Aris T. Pagourtzis

Contact Information

National Technical University of Athens (NTUA)
School of Electrical and Computer Engineering
Department of Computer Science
Heroon Politechniou 9
GR-15780 Zographou, Greece
tel: +30-210-7721640
fax: +30-210-7721645
email: pagour@cs.ntua.gr
url: <http://www.softlab.ntua.gr/~pagour>

Biographical sketch

Studies. Diploma in Electrical Engineering (1989) and Ph.D. in Electrical and Computer Engineering (1999), National Technical University of Athens (NTUA), Greece.

Positions. Current: Associate Professor at the School of Electrical and Computer Engineering of NTUA. Earlier: Visiting Professor at the University of Ioannina (2000), Research Associate at the University of Liverpool (2000-2002), Visiting Research Fellow at ETH Zuerich (Nov-Dec 2000 and Mar-Jul 2002), Adjunct Lecturer at the University of Athens and at NTUA (2003-2005), Lecturer (2006-2010) and Assistant Professor (2010-2015) at the School of Electrical and Computer Engineering of NTUA.

Academic Service. Program committee member of: 14th International Symposium on Experimental Algorithms (SEA 2015), Data Protection and Security (DPS - IISA 2014), WAOA 2008, AdHocNow 2007. Co-organizer of AtheCrypt (2013, '14, '15), and of the conference series Athens Colloquium on Algorithms and Complexity (ACAC) continuously since 2006. Workshops chair of AdHocNow 2015. Local committee member of EUROCRYPT 2013. Jury member of EESTEC competition for Android (2014, 2015).

Reviewer for scientific journals, including Theoretical Computer Science, IEEE/ACM Transactions on Networking, Algorithmica, IEEE Transactions on Computers, Information Processing Letters, and for many computer science conferences.

Research interests. Computational Complexity, Network Algorithms, Distributed Computing, Approximation Algorithms, Security and Cryptography. Most cited contributions: algorithms for optical networks optimization, distributed protocols for ad-hoc networks, optimization problems.

Other Research Activities. *Invited talks:* City University of New York, ETH Zuerich, University of Ulm, Schloss Dagstuhl, Université Paris-Sud (Orsay), University of Liverpool, Athens University of Economics and Business, University of Athens, Université Paris-Dauphine, LIP6, USI Lugano.

Research visits: ETH Zuerich, invited by Professor Peter Widmeyer (Nov-Dec 2000 and Mar-Jul 2002), University of Rochester, invited by Professor Lane A. Hemaspaandra (Oct '09) Université Paris-Dauphine, invited by Dr. Laurent Gourvès (Mar '12, Nov '12, and Sep'13).

Funding: Recipient of EU, UK, Swiss, and national grants and scholarships.

Advising: Advisor or co-advisor for many Diploma and M.Sc. theses and for six PhD theses (three completed).

Teaching. *Undergraduate courses.* Current: Number Theory and Cryptography, Cryptography and Complexity, Introduction to Computer Science, Foundations of Computer Science, Fortran and Object Oriented Programming. Past: Introduction to Programming, Algorithms and Complexity.

Graduate courses. Current: Computational Complexity, Network Algorithms and Complexity. Past: Approximation Algorithms, Parallel Algorithms, Advanced Cryptography and Complexity.

Publications

I. Journals

1. E. Bampas, A. Pagourtzis, G. Pierrakos, and K. Potika, "**On a non-cooperative model for wavelength assignment in multifiber optical networks**", *IEEE/ACM Transactions on Networking*, 20(4): 1125-1137, 2012.
2. E. Bampas, A. Pagourtzis, and K. Potika, "**An experimental study of maximum profit wavelength assignment in WDM rings**", *Networks*, 57(3), pp. 285-293, 2011.
3. F. Coenen, P. Leng, A. Pagourtzis, D. Souliou and W. Rytter, **Improved Methods for Extracting Frequent Itemsets from Interim-Support Trees.** *Software: Practice and Experience*, 39(6), pp. 551-571, Wiley Interscience 2009.
4. M. Cieliebak, S. Eidenbenz, A. Pagourtzis, and K. Schlude, "**On the Complexity of Variations of Equal Sum Subsets**", *Nordic Journal of Computing*, 14(3), pp. 151-172, 2008.
5. A. Pagourtzis, K. Potika, and S. Zachos, "**Path multicoloring with fewer colors in spiders and caterpillars.**" *Computing*, 80(3), pp. 255-274, Springer Wien, 2007.
6. L. Gasieniec, A. Pagourtzis, I. Potapov, and T. Radzik, **Deterministic Communication in Radio Networks with Large Labels**, *Algorithmica*, 47(1), pp. 97-117, Springer, 2007.
7. D. Souliou, A. Pagourtzis, N. Drosinos, and P. Tsanakas, **Computing Frequent Itemsets in Parallel using Partial Support Trees**, *Journal of Systems and Software*, 79(12), pp. 1735-1743, Elsevier Science, 2006.
8. C. Nomikos, A. Pagourtzis, K. Potika, and S. Zachos, "**Routing and Wavelength Assignment in Multifiber WDM Networks with Non-Uniform Fiber Cost.**" *Computer Networks*, 50(1), pp. 1-14, Elsevier Science, 2006.

9. C. Nomikos, A. Pagourtzis, and S. Zachos, **Satisfying a maximum number of pre-routed requests in all-optical rings**, *Computer Networks*, 42(1), σελ. 55-63, Elsevier Science, 2003.
10. A. Gibbons, A. Pagourtzis, I. Potapov and W. Rytter, **Coarse-Grained Parallel Transitive Closure Algorithm: Path Decomposition Technique**, *The Computer Journal*, 46(4), σελ. 391-400, Oxford University Press, 2003.
11. C. Nomikos, A. Pagourtzis, and S. Zachos, **Routing and Path Multi-Coloring**. *Information Processing Letters*, 80(5), σελ. 249-256, Elsevier Science, 2001.

II. Conference proceedings (peer-reviewed, selection)

1. Christina Karousatou, Evangelos Bampas, Aris Pagourtzis, Katerina Potika: **Scheduling Connections via Path and Edge Multicoloring**. AdHocNow 2015 (accepted).
2. Aris Pagourtzis, Giorgos Panagiotakos, Dimitris Sakavalas: **Reliable Broadcast with Respect to Topology Knowledge**. DISC 2014: 107-121.
3. Laurent Gourvès, Jérôme Monnot, Aris Pagourtzis: **The Lazy Matroid Problem**. IFIP TCS 2014: 66-77.
4. Evangelos Bampas, Nikos Leonardos, Euripides Markou, Aris Pagourtzis, Matoula Petrolia: **Improved Periodic Data Retrieval in Asynchronous Rings with a Faulty Host**. SIROCCO 2014: 355-370.
5. Chris Litsas, Aris Pagourtzis, Dimitris Sakavalas: **A Graph Parameter That Matches the Resilience of the Certified Propagation Algorithm**. ADHOC-NOW 2013: 269-280.
6. Evangelos Bampas, Aris Pagourtzis, George Pierrakos, Vasilis Syrgkanis: **Selfish Resource Allocation in Optical Networks**. CIAC 2013: 25-36
7. Laurent Gourvès, Jérôme Monnot, Aris Pagourtzis: **The Lazy Bureaucrat Problem with Common Arrivals and Deadlines: Approximation and Mechanism Design**. FCT 2013: 171-182.
8. P. Koutris and A. Pagourtzis, **Oblivious k-shot broadcasting in ad hoc radio networks**. In Proceedings of the 17th Computing: The Australasian Theory Symposium (CATS 2011), Perth, Australia, January 2011, CPRIT, Vol. 119.
9. P. Koutris and A. Pagourtzis, **Brief announcement: k-shot distributed broadcasting in radio networks**. In Proceedings of the 29th ACM SIGACT-SIGOPS symposium on Principles of Distributed Computing (PODC 2010). ACM, New York, NY, USA, 77-78. DOI=10.1145/1835698.1835717.
10. E. Bampas, A.-N. Göbel, A. Pagourtzis, and A. Tentes, **On the connection between interval size functions and path counting**. In Proceedings of TAMC 2009 - 6th Annual Conference on Theory and Applications of Models of Computation, LNCS 5532, pp. 108-117. Springer-Verlag, Berlin Heidelberg, 2009.
11. E. Bampas, A. Pagourtzis, G. Pierrakos, and K. Potika, **On a non-cooperative model for wavelength assignment in multifiber optical networks**. In Proceedings of ISAAC 2008 - 19th International Symposium on Algorithms and Computation, LNCS 5369, pp. 159-170. Springer-Verlag, Berlin Heidelberg, 2008.
12. E. Bampas, A. Pagourtzis, and K. Potika, **“Maximum profit wavelength assignment in WDM rings (extended abstract)”**. In Proceedings of CTW 2008 - 7th Cologne-Twente Workshop on Graphs and Combinatorial Optimization, pp. 35-38, 2008.

13. C. Nomikos, A. Pagourtzis, and S. Zachos, **Randomized and Approximation Algorithms for Blue-Red Matching**, in Proceedings of 32nd International Symposium on Mathematical Foundations of Computer Science (*MFCS 2007*), to appear.
14. I. Milis, A. Pagourtzis, and K. Potika, **Selfish Routing and Path Coloring in All-Optical Networks**, in Proceedings of 4th Workshop on Combinatorial and Algorithmic Aspects of Networking (*CAAN 2007*), Lecture Notes in Computer Science 4852, pp. 71-84, Springer-Verlag 2007.
15. E. Bampas, G. Kaouri, M. Lampis, and A. Pagourtzis, **Periodic Metro Scheduling**, in Proceedings of the 6th Workshop on Algorithmic Methods and Models for Optimization of Railways (*ATMOS 2006*), Schloss Dagstuhl Research Online Publication Server ([http:// drops.dagstuhl.de/ opus/volltexte/2006/684/](http://drops.dagstuhl.de/opus/volltexte/2006/684/)).
16. A. Pagourtzis, and S. Zachos, **The Complexity of Counting Functions with Easy Decision Version**, in Proceedings of 31st International Symposium on Mathematical Foundations of Computer Science (*MFCS 2006*), Lecture Notes in Computer Science 4162, pp. 741-752, Springer-Verlag 2006.
17. I. Z. Emiris, E. Markou, and A. Pagourtzis, **Distributed Routing with Tree Networks with Few Landmarks**, in Proceedings of 3rd Workshop on Combinatorial and Algorithmic Aspects of Networking (*CAAN 2006*), July 2006, Chester, United Kingdom. Lecture Notes in Computer Science 4235, pp. 45-57, Springer-Verlag 2006.
18. F. Coenen, P. Leng, A. Pagourtzis, D. Souliou and W. Rytter, **Techniques for Faster Generation of Frequent Itemsets Using Interim Support Trees**, in Proceedings of the 25th SGA International Conference on Innovative Techniques and Applications of Artificial Intelligence (*AI 2005*), Dec 13 -- 14, pp. 263-276, Springer London.
19. D. Souliou, A. Pagourtzis, and N. Drosinos, **Computing Frequent Itemsets in Parallel Using Partial Support Trees**, in *Proceedings of 10th European PVM/MPI Conference (Euro PVM/MPI 2005)*, Sep 18 – 21, 2005, Sorrento (Naples), Italy. Lecture Notes in Computer Science 3666, pp. 28-37, Springer-Verlag 2005.
20. C. Nomikos, A. Pagourtzis, K. Potika, and S. Zachos, **Fiber Cost Reduction and Wavelength Minimization in Multifiber WDM Networks**, *Proceedings of the Third IFIP-TC6 Networking Conference (Networking 2004)*, Athens, Greece, May 9–14, 2004, Lecture Notes in Computer Science 3042, pp. 150–161, Springer-Verlag.
21. S. Eidenbenz, A. Pagourtzis, and P. Widmayer, **“Flexible Train Rostering”**, *Proceedings of the 14th Annual International Symposium on Algorithms and Computation (ISAAC 2003)*, Kyoto, Japan, December 15-17, 2003, Lecture Notes in Computer Science 2906, pp. 615–624, Springer-Verlag.
22. T. Erlebach, A. Pagourtzis, E. Potika, and S. Stefanakos, **Resource Allocation Problems in Multifiber WDM Tree Networks**. *Proceedings of 29th Workshop on Graph Theoretic Concepts in Computer Science (WG 2003)*, Jun 19 – 21 2003, Elspeet Netherlands, Lecture Notes in Computer Science 2880, pp. 218-229, Springer Verlag, 2003.
23. C. Nomikos, A. Pagourtzis, and S. Zachos, **Minimizing Request Blocking in All-Optical Rings**. *Proceedings of the 22nd Annual Joint Conference of the IEEE Computer and Communications Societies (IEEE INFOCOM 2003)*, Mar 30 – Apr 3 2003, San Francisco, CA, USA.

24. A. Pagourtzis, I. Potapov, and W. Rytter, **Observations on Parallel Computation of Transitive and Max-Closure Problems**. *Proceedings of 9th European PVM/MPI Conference (PVM/MPI 2002)*, Sep 29 – Oct 02, 2002, Linz, Austria, Lecture Notes in Computer Science 2474, pp. 217-225, Springer-Verlag.
25. L. Gasieniec, A. Pagourtzis, and I. Potapov, **Deterministic Communication in Radio Networks with Large Labels**. *Proceedings of 10th European Symposium on Algorithms (ESA 2002)*, Sep 17–21, 2002, Rome, Lecture Notes in Computer Science 2641, pp. 512-524, Springer-Verlag.
26. A. Pagourtzis, I. Potapov, and W. Rytter, **PVM Computation of the Transitive Closure: The Dependency Graph Approach**. *Proceedings of 8th European PVM/MPI Conference (PVM/MPI 2001)*, Santorini/Thera, Greece, September 23–26, 2001, Lecture Notes in Computer Science 2131, pp. 249–256, Springer-Verlag.
27. B. S. Chlebus, L. Gasieniec, A. Lingas, and A.T. Pagourtzis, **Oblivious Gossiping in ad-hoc Radio Networks**. *Proceedings of 5th Int. Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications (DialM'2001)*, Rome, Italy, July 21, 2001, pp. 44–51, ACM Press, NY, 2001.
28. A. Kiayias, A. Pagourtzis, and S. Zachos, **Cook Reductions Blur Structural Differences Between Functional Complexity Classes**. *Proceedings of 2nd Panhellenic Logic Symposium (PLS '99)*, pp. 132-137, Delphi, Jul 13–17, 1999.