



Stavros Kolliopoulos

Title: Associate Professor

Sector: Theoretical Computer Science

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Academic Qualifications:

- PhD in Computer Science, Dartmouth College, Hanover, NH, USA, 1998.
- M.Sc. in Computer Science, Dartmouth College, Hanover, NH, USA, 1995.
- Diploma in Computer Engineering and Informatics, University of Patras, Patras, Greece, 1993.

Appointments:

- November 2010–present. Associate Professor, Department of Informatics and Telecommunications, University of Athens.
- 2004–2010. Assistant Professor, Department of Informatics and Telecommunications, University of Athens.
- 1999–2004. Assistant Professor, Department of Computing and Software, McMaster University, Hamilton, Ontario, Canada.
- 1998–1999. Scientist (term employee), Computer Science Division, NEC Research Institute, Princeton, NJ, USA

Teaching Activities:

- University of Athens: Discrete Mathematics, Theory of Computation (undergraduate); Computational Complexity, Approximation Algorithms (graduate)
- McMaster University: Computer Architecture, Database Systems (undergraduate); Algorithms, Approximation Algorithms (graduate).

Research Interests/Activities: (last 10 years)

- Design and Analysis of Algorithms
- Combinatorial Optimization

Scientific Publications/Citations:

- 15 journal articles (J. Algorithms, Mathematical Programming A, SIAM J. Computing, Discrete Applied Mathematics, J. Computer and System Sciences, Algorithmica, Operations Research Letters, Information Processing Letters, ACM J. Experimental Algorithmics, Theoretical Computer Science, ACM Transactions on Algorithms); 17 articles in conference proceedings (FOCS, IPCO, ESA, STACS, COCOON, SAGT, ICALP, INFOCOM and others).
- Citations (excluding self-citations): over 580. H-index: 11. G-index: 24

Top five publications

- S. G. Kolliopoulos and C. Stein. “Approximating Disjoint-Path Problems using Packing Integer Programs”, Mathematical Programming, series A, (99), 63-87, 2004.
- S. G. Kolliopoulos and N. E. Young. “Approximation Algorithms for Covering/Packing Integer Programs”, J. Computer and System Sciences, (71), 495-505, 2005.

- S. G. Kolliopoulos and S. Rao. “A Nearly Linear-time Approximation Scheme for the Euclidean k-median problem” SIAM J. Computing, (37), 757-782, 2007
- G. Karakostas and S. G. Kolliopoulos. “Edge Pricing of Multicommodity Networks for Selfish Users with Elastic Demands” Algorithmica, special issue on the 12th Int. Computing and Combinatorics Conference, (53), 225-249, 2009
- G. Karakostas, S. G. Kolliopoulos, J. Wang. “An FPTAS for the total weighted tardiness problem with a fixed number of distinct due dates”, to appear in ACM Transactions on Algorithms, accepted in final form

Other Activities:

- Reviewer for: J. Algorithms, SIAM J. Computing, J. ACM, ACM Transactions on Algorithms, SIAM J. Discrete Math., Networks, Mathematics of Operations Research, J. Combinatorial Optimization, PODC 1999, STOC 2001, ESA 2006, ICALP 2006, FOCS 2007, ISAAC 2008, STOC 2009, SODA 2010, WG 2010, ESA 2010 and numerous other journals and conferences.
- PC member of international conferences: APPROX 2005, ACM-SIAM SODA 2006, CAAN 2006
- Conference Organizing Committees: 1st and 2nd McMaster Optimization Conference (MOPTA), 2001 & 2002
- NSERC individual research grants, Canada Foundation for Innovation New Opportunities Award (team of 2) (Canada); participant in Pythagoras, Archimedes grants (Greece)