Ioana Oriana Bercea

Department of Computer Science University of Maryland Rm. 3457, A.V. Williams Building College Park, MD USA 20742

Education

Ph.D. in Computer Science

2010 - 2018 (expected)

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Email: ioana@cs.umd.edu

Website: http://www.cs.umd.edu/ioana/

University of Maryland, College Park, MD

Advisor: Samir Khuller

M.S. in Computer Science

2013

University of Maryland, College Park, MD

Advisor: Aravind Srinivasan

B.S. in Mathematics and B.S. in Computer Science

2006 - 2010

University of Chicago, Chicago, IL Honors in Mathematics Four-year full grant

Research Interests

Approximation Algorithms, Combinatorial Optimization, Computational Geometry, Robotics, Randomized Algorithms

Conference Publications

 Minimizing Uncertainty through Sensor Placement with Angle Constraints. Ioana O. Bercea, Volkan Isler, Samir Khuller 28th Canadian Conference on Computational Geometry, CCCG 2016

2. On Computing Maximal Independent Sets of Hypergraphs in Parallel.

Ioana O. Bercea, Navin Goyal, David G. Harris, Aravind Srinivasan 26th ACM Symposium on Parallelism in Algorithms and Architectures, SPAA 2014

Journal Publications

1. On Computing Maximal Independent Sets of Hypergraphs in Parallel.

Ioana O. Bercea, Navin Goyal, David G. Harris, Aravind Srinivasan *ACM Transactions on Parallel Computing*, Special issue on SPAA 2014

Manuscripts

- 1. Counting Small Cliques and Four Node Subgraphs in Bounded Degeneracy Graphs Saba Ahmadi, Ioana O. Bercea, Samir Khuller, Sheng Yang
- 2. New Approximations for the Graph Vertex Pricing Problem.

Ioana O. Bercea, David G. Harris

Research Experience

Research Internship Summer 2017 Max Planck Institute for Informatics, Saarbrucken, Germany w. Tobias Mömke Research Internship Summer 2016 Max Planck Institute for Informatics, Saarbrucken, Germany w. Parinya Chalermsook, Mayank Goswami Summer 2012 Research Internship Microsoft Research India, Bangalore, India w. Navin Goyal Teaching Experience Co-Instructor Spring 2016 University of Maryland, Department of Computer Science - Introduction to Computer Programming via the Web Teaching Assistant 2010 - 2017University of Maryland, Department of Computer Science - Intro. to Comp. Progr. via the Web Fall '17 - Discrete Structures Fall '11,'15,'16, Spring '14,'15,'17 - Algorithms Spring '12 - Introduction to Computer Systems Spring '11, Summer '11 - Object Oriented Programming I, II Fall '10, '13 2009 - 2010**Junior Tutor** University of Chicago, Department of Mathematics - Elementary Functions and Analysis 1,2,3 Honors and Awards Outstanding Graduate Assistant Award 2014 - 15Top 2% of all UMD Graduate Assistants University of Maryland Dean's Fellowship 2010 - 12University of Chicago Dean's List 2006-07,2007-08,2009-10 University of Chicago Full Grant 2006 - 2010Romanian National Mathematics Olympiad 2001 - 2006Bronze medals in the National Olympiad Top 3 prizes in national and regional contests

Service

MacLab Instructional Laboratory

Conference Reviewer SPAA 2017, FC 2018	2017
Journal Reviewer Networks, ACM Transactions on Sensor Networks	2017
Graduate Student Representative for Department Council University of Maryland, Department of Computer Science	2015 - 2016
Graduate Student Representative for Education Committee University of Maryland, Department of Computer Science	2012 - 2014
Employment	
Tutor University of Chicago, Department of Computer Science	2007 - 2010