

Saeed Alaei

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Research Interest

- Approximation Algorithms
- Game Theory & Mechanism Design
- Optimization

Education

- **Ph.D. in Computer Science** 2005 - Present
University of Maryland at College Park, College Park, MD
GPA = 4.0/4.0
- **B.Sc. in Computer Engineering** 2001 - 2005
Sharif University of Technology, Tehran, Iran
GPA = 16.86/20.0

Awards & Honors

- **Bronze Medal**, 13th International Olympiad in Informatics, Tampere, Finland, Summer 2001.
- **Gold Medal**, 10th National Olympiad in Informatics, Iran, Summer 2000.
- **Bronze Medal** 17th, National Olympiad in Mathematics, Iran, Summer 1999.
- **Ranked 5th**, National Graduate Entrance Examination (Software Engineering), Iran, Spring 2005.

Publications

- Saeed Alaei, Azarakhsh Malekian. *An Analysis of Troubled Assets Reverse Auction*, Working Paper 2008.
- Saeed Alaei, Azarakhsh Malekian. *Maximizing Sequence-Submodular Functions and its Application to Online Advertising*, Working Paper 2008.
- Saeed Alaei, Azarakhsh Malekian. *Strategic Bidding in eBay Repeated Auction*, Working Paper 2008.
- Saeed Alaei, Azarakhsh Malekian, Ravi Kumar, Erik Vee. *Combinatorial Solutions for Representative Allocation in Guaranteed Delivery*, Working Paper, 2008.
- *Online Allocation of Display Advertisements subject to Advanced Sales Contracts*. Saeed Alaei, Esteban Arcaute, Samir Khuller, Wenjing Ma, Azarakhsh Malekian and John A. Tomlin. The 3rd Annual International Workshop on Data Mining and Audience Intelligence for Advertising, ADKDD 2009
- *On Random Sampling Auctions for Digital Goods*. Saeed Alaei, Azarakhsh Malekian, Aravind Srinivasan. ACM Conference on Electronic Commerce(EC), Stanford, 2009.
- *SkipTree: A Scalable Range-Queryable Distributed Data Structure for Multidimensional Data*. Saeed Alaei, Mohammad Toossi. International Symposium on Algorithms and Computation (ISAAC) 2005: 298-307.

- Technical Skills**
- Proficient in C++/C, Object-Oriented Design, Qt, x86 assembly, Java, L^AT_EX, Asymptote
- Past Research Projects**
- **UbiOS - Ubiquitous Object Space** : A distributed object storage system with advanced access control mechanism based on *capabilities*.
 - **Mote-FS with Access Control** : Designing and implementing access control for mote-fs (a snapshot based file system with versioning).
- Work and Teaching Experiences**
- **Research Intern - Microsoft Researchg**
2009-Summer
Theory Group, worked under supervision of Kamal Jain and Yuval Peres
 - **Intern - Yahoo!**
2008-Summer
APEX Serving Platform, worked under supervision of Rohit Chandra
 - **Work - Research Institute of Petroleum Industry**
2002-2004
Oil Reservoir Modeling project (GeoPars).
I worked on geo-statistical modeling of data collected from wells, using generalized linear regression techniques (kriging) and stochastic simulations.
 - **Instructor - Advanced C++ programming**
2002, 2003, 2004
 - **Teaching Assistant - Discrete Structures, Introduction to low level programming, Advanced Data Structures**
- Other**
- **GRE - Computer Science** December 11, 2004
Score: 880/900 (98%)
- References**
- **Samir Khuller**, Professor,
Department of Computer Science, Univ. of Maryland, College Park, MD 20742
email: samir@cs.umd.edu
Phone: (301)405-6765
 - **Aravind Srinivasan**, Professor,
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