

Mahyar Salek

CONTACT INFORMATION

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RESEARCH INTERESTS

- Combinatorial Auctions, Path Auctions, Externalities in Auctions
- Social Networks and Optimization over Network
- Search Algorithms, Search over network, Data mining over network
- Optimization, Approximation Algorithms, Probability Theory, Algorithmic Game Theory

EDUCATION

University of Southern California, Los Angeles, CA (January 2006-present)
Department of Computer Science

Ph.D. Student, Computer Science

- Advisor: David Kempe
- GPA: 3.98/4
- Relevant Courses: Approximation Algorithms, Randomized Algorithms, Analysis of Algorithms, Structure and Dynamics of Networked Information, Game Theory, Micro-economics, Contract Theory, Combinatorics, Convex Optimization, Cryptography, Advanced Artificial Intelligence, Management of Financial risk (derivatives), Financial Engineering

Simon Fraser University, Burnaby, Canada (September 2005 - December 2005)
School of Computing Science

GPA: 4/4

Courses: Complexity Theory, Sublinear Algorithms

Sharif University of Technology, Tehran, Iran (September 2001 - August 2005)
Department of Computer Engineering

B.S., Computer Engineering, August 2005

GPA: 17.55/20

Graduate Level Course: Advanced Algorithms

WORK EXPERIENCE

Research

- Research Assistantship, Computer Science Department, University of Southern California (January 2006 - present).
- Research Assistantship, Internet Algorithms lab, Sharif University of Technology (2004).

Teaching

- Teaching Assistantship, CS 570, Computer Science Department, University of Southern California (Fall 2008, Spring 2010).
- Teaching Assistantship, MACM 101, Computer Science Department, Simon Fraser University (Fall 2005).
- Multiple Teaching Assistantships, Sharif University of Technology (2003-2005).

Internship

- Research internship at CWI (Center for Mathematics and Computer Sciences), Amsterdam, Netherlands, (Summer 2009)
- Mentor: Guido Schäfer

Industry

- Co-Founder and Commercial Manager, Novin Zist Kala Trading and Manufacturing Company (2001-2004).

HONORS AND AWARDS

- Annenberg Graduate Fellowship, School of Communication, University of Southern California (2007-2008).
- University of Southern California: Tuition Scholarship, (2006 - present).
- USC Presidential Award in Commitment and Contribution, IGSA, USC (2006-2007).
- Certificate of Achievement, Viterbi School of Engineering, USC (2009)
- Young Leader Award, NIPOC (2007)
- Engineering Idol 2007, USC, Los Angeles, California.
- Simon Fraser University: Entrance Scholarship (Fall 2005).
- Ranked 1st in National Graduate School Acceptance Examination for Information Technology, Iran (2005).
- Multiple Prize Winner in Classical Guitar Performance, FADJR International Music Festival, Tehran, Iran (2000-2001).

PUBLICATIONS AND ONGOING PROJECTS D. Kempe, A. Mu'alem, M. Salek: Envy-Free Allocations for Budgeted Bidders. *Proceedings of WINE 2009, Rome, Italy.*

M. Salek, D. Kempe: Auctions for Share-Averse Bidders. Appeared in *Proceedings of WINE 2008, Shanghai, China.*

A. Iwasaki, D. Kempe, Y.Saito, M. Salek, M. Yokoo: False-name-proof mechanisms for hiring a team. Appeared in *Proceedings of WINE 2007, San Diego, CA.*

S. Bharathi, D. Kempe, M. Salek: Competitive Influence Maximization in Social Networks. Appeared in *Proceedings of WINE 2007, San Diego, CA.*

M. Salek, S. Shayandeh, D. Kempe, : Network Effects on File-Sharing Incentives. *Submitted.*

D. Kempe, C. Moore, M. Salek: Truthful and Frugal Auctions for Vertex Covers, Flows and Cuts. *Submitted.*

J. Brenner, M. Salek, G. Schäfer: Bottleneck Routing Games *Ongoing.*

Vincenzo Bonifaci, M. Salek, G. Schäfer: On the Efficiency of Restricted Tolls in Non-Atomic Network Routing Games *Ongoing.*

INVITED TALKS

- Auctions for Share-Averse Bidders, Department of Economics, University of Southern California, April 2008.
- Mechanisms for hiring a team, Computer Science Department, California Institute of Technology, February 2007, University of California, Los Angeles, November 2007, CWI, Amsterdam, June 2009.
- Frugal and Truthful Auctions for Vertex Covers, Flows and Cuts. University of California, Los Angeles, January 2010, California Institute of Technology, February 2010

SERVICE AND LEADERSHIP EXPERIENCE

- President, Computer Science Graduate Organization (CSGO) at USC (2008-2009).
- Student Ambassador, USC Stevens Institute for Innovation (2008-2009).
- Senator, Viterbi Graduate Student Association, USC (2008-2009)
- Treasurer and Co-Founder, USC-IDEAS, USC (2008-present)
- Student member, the University Committee on Curriculum and the Committee on Academic Policies and Procedures (CAPP). (2008-2009)
- Executive Editor, IRIS Student Magazine (2008-present).
- Programming Director, International Student Assembly (ISA) at USC (2007-2008).
- President, Iranian Graduate Student Association (IGSA) at USC (2006-2007).

SKILLS

- **Technical:** Programming: C(++), Java, Prolog, Web: HTML, Java Script, Modeling: Verilog, MAPLE
- **Language:** English (fluent), Persian (native), Spanish (familiar), Arabic (familiar).