

MOSTAFA SALEHI



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Faculty of New Sciences and
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EDUCATION AND ACADEMIC RESEARCH

Ph.D. in Computer Engineering

Digital Media Laboratory (DML), Department of Computer Engineering, Sharif
University of Technology, Tehran, Iran, Nov. 2012
Advisors: Pro. Hamid R. Rabiee
Thesis: Sampling in Large Scale Complex Networks

M.Sc. in Computer Architecture Design

High Speed Networks Lab., Department of Computer Engineering and IT, Amirkabir
University of Technology, Tehran, Iran, Jan. 2008
Advisors: Pro. Siavash Khorsandi
Thesis: Improving Centralized and Distributed Scheduling for Utilized Minislot
Allocation in IEEE 802.16 Mesh Networks

B.Sc. in Computer Hardware Engineering

Information Technology Research Center, Department of Computer Engineering, Iran
University of Science and Technology (IUST), Tehran, Iran, June 2005
Advisor: Pro. Naser Mozayani
Thesis: Hardware Implementation of Neural Networks on FPGA

RESEARCH INTERESTS

- Social Network Analysis
- Information diffusion networks
- Inference and study of partially-observed complex networks
- Multimedia Networks

PROFESSIONAL EXPERIENCE

Research

- Assistant Professor, Faculty of New Sciences and Technologies, University of Tehran, Tehran, Iran. Feb. 2013 to present.
- Research Assistant, Digital Media Laboratory, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, Sep. 2008 to Nov. 2012.
- Research Assistant, Developing Uninet, an Online Social Network, Digital Media Laboratory, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran, Sep. 2010.
- Research Assistant, Designing the Data Communication Network (DCN), Mobile Company of Iran (MCI), Tehran, Iran, Jan. 2009 to Oct. 2009.
- Research Assistant, High Speed Networks Laboratory, Department of Computer Engineering and IT, Amirkabir University of Technology, Tehran, Iran, Sep. 2005 to Jan. 2008.
- Research Assistant, Simulation, Analysis and Improvement of National IP network, Information Technology Company, Tehran, Iran, Oct 2006 to Jul 2007.
- Research Assistant, Designing and Simulating the National Science Network–Tehran Phase, Iran Telecommunication Research Center, Tehran, Iran, June 2006 to Oct 2006.

- Research Assistant, Developing VNSA Software, a Network Simulation and Analysis Tool, High Speed Networks Laboratory, Department of Computer Engineering and IT, Amirkabir University of Technology, Tehran, Iran, Mar 2006 to June 2006.
- Research Assistant, IVR Systems Implementation, Information Technology Research Center (ITRC), Department of Computer Engineering, Iran University of Science and Technology, Tehran, Iran, June 2003 to June 2005.
- Intern (Computer Networks), National Iranian oil refining and distribution Co., Tehran, Iran, Summer 2004.

Teaching

- **Instructor**, Faculty of New Sciences and Technologies, University of Tehran, Tehran, Iran
 - Graduate-Level Course, Healthcare Multimedia Networks, Spring 2013
- **Instructor**, Department of Computer Engineering, Sharif University of Technology, Tehran, Iran
 - Undergraduate-Level Course, Computer Networks, Fall 2012
- **Instructor**, Department of Computer Engineering, Sharif University of Technology Sharif University of Technology, Tehran, Iran
 - Undergraduate-Level Course, Computer Networks Lab., Summer and Fall 2011
- **Teaching Assistant**, Department of Computer Engineering, Sharif University of Technology Sharif University of Technology, Tehran, Iran
 - Graduate-Level Course, Multimedia Networks, Spring 2011 and Spring 2012
- **Teaching Assistant**, Sharif University of Technology, Kish Island Campus, Kish, Iran
 - Graduate-Level Course, Computer Network Management, Fall 2008
- **Instructor**, Department of Computer Engineering and IT, Amirkabir University of Technology, Tehran, Iran
 - Undergraduate-Level Course, Computer Architecture Laboratory, Spring 2006
- **Teaching Assistant**, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran
 - Undergraduate-Level Course, Computer Architecture, Fall 2005

PUBLICATION

Journal Papers

1. M. Salehi and H. R. Rabiee, "A Measurement Framework for Directed Networks," IEEE Journal on Selected Areas in Communications (JSAC): Special Issue on Network Science, vol. 31, Issue 6, pp. 1007 - 1016, June 2013.
2. M. Salehi, H. R. Rabiee, and A. Rajabi, "Sampling from Complex Networks with High Community Structures", Chaos: An Interdisciplinary Journal of Nonlinear Science, Jun; 22(2):023126. 2012.
3. P. Siyari, H. R. Rabiee, M. Salehi, and M. Eslami "Network Reconstruction under Compressive Sensing," ASE Human Journal, vol.1, issue 3, pp. 130-143, 2012. ISBN: 978-1-62561-004-1
4. M. Yousof Naderi, H. R. Rabiee, M. Khansari, M. Salehi, "Error Control for Multimedia Communications in Wireless Sensor Networks: A Comparative Performance Analysis", Elsevier - Adhoc Networks, , vol. 10, issue 6, 2012.
5. M. Salehi, H. R. Rabiee, and M. Jalili, "Motif Structure and Cooperation in Real-World Complex Networks," Elsevier Physica A, vol. 389, issue 23, 2010.

Conference Papers

6. H. S. Ayatollahi Tabatabaie, H. R. Rabiee, M. H. Rohban, M. Salehi, "Incorporating Betweenness Centrality in Compressive Sensing for Congestion Detection," in Proc IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Canada, May 2013.
7. N. Bayat, H. R. Rabiee, and M. Salehi, "Locality Awareness in Multi-Channel Peer-to-Peer Live Video Streaming Networks," in Proc. Advanced Information Networking and Applications (AINA), Barcelona, Spain, March 2013.
8. M. Eslami, H. R. Rabiee, and M. Salehi, "Sampling from Diffusion Networks," in Proc. ASE Social Informatics, USA, Dec. 2012.
9. P. Siyari, H. R. Rabiee, M. Salehi, and M. Eslami "Network Reconstruction under Compressive Sensing," in Proc. ASE Social Informatics, USA, Dec. 2012.
10. N. Bayat, B. Akbari, H. R. Rabiee, and M. Salehi, "Locality Aware P2P Overlay Architecture for Live Video Streaming," in Proc. International Symposium of Telecommunication, , Tehran, Iran, Nov. 2012.
11. M. Eslami, H. R. Rabiee, M. Salehi, "Diffusion-Aware Sampling and Estimation in Information Diffusion Networks," in Proc. ASE/IEEE Social Computing, Netherlands, Sep. 2012.
12. A .Ghanbari, H. R. Rabiee, Mohammad Khansari, M. Salehi, "PPM - A Hybrid Push-Pull Mesh Peer-to-Peer Live Video Streaming Protocol", IEEE International Conference on Computer Communication Networks (ICCCN), Germany, July 2012.
13. S. M. Aghdam, M. Khansari, H. R. Rabiee, and M. Salehi, "UDDP: A User Datagram Dispatcher Protocol for Wireless Multimedia Sensor Networks", in Proc. IEEE Consumer Communications and Networking Conference (CCNC)- Special Session on Multimedia Content Delivery Networks, USA, Jan. 2012.
14. M. Salehi, H. R. Rabiee, N. Nabavi, and Sh. Pooya, "Characterizing Twitter with Respondent-Driven Sampling", in Proc. IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC), Sydney, Australia, Dec. 2011.
15. M. Eslami, H. R. Rabiee, M. Salehi, "DNE: A Method for Extracting Cascaded Diffusion Networks from Social Networks," in Proc. IEEE Social Computing, Oct. 2011.
16. M. Salehi, M. Jalili, and H. R. Rabiee, "Modeling Brain Functional Networks using High Density Electroencephalography Data," in Proc. International Symposium of Telecommunication, Tehran, Iran, Dec. 2010.
17. S. Khorsandi, R. Farahbakhsh, M. Salehi, and A. M. Abdolhoseini, "Analysis Study on Traffic Estimation and Metro Network Models," in Proc. electronic City, Tehran, Iran, Feb. 2008 (Persian).
18. M. Salehi and S. Khorsandi, "A Centralized Scheduling with Spatial Reuse in IEEE 802.16 based Wireless Mesh Network," in Proc. Iranian Conference on Electrical Engineering, Tehran, Iran, May. 2008 (Persian).

Technical Reports

19. M. Salehi and H. R. Rabiee, "Application of Compressive Sensing in the Network field," Department of Computer Engineering, Sharif University of Technology, April, 2011 (Persian).
20. M. Salehi and H. R. Rabiee, "Matrix Completion and Network Sampling,"

Department of Computer Engineering, Sharif University of Technology, July, 2011 (Persian).

21. H. Ayatollahi, M. Farahani, M. Salehi, H. R. Rabiee, "P2P Social Networks," Department of Computer Engineering, Sharif University of Technology, May, 2011.
22. M. Salehi, H. R. Rabiee, "Challenges in Network Sampling," Department of Computer Engineering, Sharif University of Technology, Nov. 2010 (Persian).
23. M. Aghajani, A. Seifoddini, M. Eslamimehr, M. Salehi, H. R. Rabiee, "Online Social Networks (Facebook, Twitter, Youtube and Cloob): History, Challenges, Opportunities, Business Models, and Future" Department of Computer Engineering, Sharif University of Technology, Jan. 2011 (Persian).

REFERENCES

Prof. Hamid R. Rabiee, Sharif University of Technology: rabiee@sharif.edu
Prof. Mahdi Jalili, Sharif University of Technology: mjalili@sharif.edu
Prof. Siavash Khorsandi, Amirkabir University of Technology: khorsand@aut.ac.ir
Prof. Mohammad Khansari, University of Tehran: m.khansari@ut.ac.ir
Prof. Behzad Akbari, Tarbiat Modares University: b.akbari@modares.ac.ir