

# MOSTAFA SALEHI



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## POSITIONS HELD

**Assistant Professor**, Faculty of New Sciences and Technologies, University of Tehran, Iran  
Feb. 2013-Present

**Visiting Professor**, Institute Mines-Telecom Telecom SudParis, France  
Jun 2015 - Sep. 2015

Project: "User behavior analysis on OSNs"/ Project supervisor: Prof. Noel Crespi

**Postdoctoral Researcher**, Department of Computer Science and Engineering, University of Bologna, Italy  
Feb. 2014 - Sep. 2014

Project: "Information monitoring, propagation analysis and community detection in social Network Site", Project supervisors: Prof. Danilo Montesi and Prof. Matteo Magnani

## EDUCATION

**Ph.D. in Computer Engineering**, Department of Computer Engineering, Sharif University of Technology, Iran  
Nov. 2012

Thesis title: Sampling in Large Scale Complex Networks/ Advisor: Pro. Hamid R. Rabiee

**M.Sc. in Computer Engineering**, Department of Computer Engineering and IT, Amirkabir University of  
Technology, Iran  
Jan. 2008

Thesis title: Improving Centralized and Distributed Scheduling for Utilized Minislot Allocation in IEEE 802.16 Mesh  
Networks / Advisor: Pro. Siavash Khorsandi

**B.Sc. in Computer Engineering**, Department of Computer Engineering, Iran University of Science and Technology  
(IUST), Iran  
June 2005

Thesis title: Hardware Implementation of Neural Networks on FPGA/ Advisor: Pro. Naser Mozayani

## GENERAL AREAS OF RESEARCH INTERESTS

- Social networks/media analysis
- Computer Networks
- Pervasive Computing
- Internet of Things

## PROFESSIONAL EXPERIENCE

- The Cloud Standards for Internet of Things (IoT) Applications in National IP network, The National Center of Cyberspace (NCC), Tehran, Iran, Feb 2016 to July 2016.
- Finding Shortest Paths in Multiplex Networks, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran. Jan 2016 to Jan 2017.
- Consultant, Analysis and Design of National IP network, Information Technology Company, Tehran, Iran, April 2015 to March 2016.
- Consultant, Analysis and design of IP/MPLS network for Mobile Communication of Iran (MCI), MCI, Tehran, Iran, Jan 2009 to Oct 2009.
- 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, 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.

## PUBLICATION

1. Hossein Akbarian, Mostafa Salehi, and Hadi Veisi, "Polarity Detection of Online reviews in Persian Social Media Sites," in Proc. 24th Iranian Conference on Electrical Engineering (ICEE), Shiraz, Iran, May 2016. in Persian
2. Vahid Ranjbar, Mostafa Salehi, and Hadi Veisi, "Next Place Prediction for Location-based Mobile Services," in Proc. 21st Computer Society of Iran Computer Conference (CSICC), Tehran, Iran, January 2016. (Persian)
3. Soheila Molaei, Sama Babaei, and Mostafa Salehi, "Weighted Meta Path-Based Similarity Search in Heterogeneous Information Network," in Proc. 21st Computer Society of Iran Computer Conference (CSICC), Tehran, Iran, January 2016. (Persian)
4. Mostafa Salehi, Rajesh Sharma, Moreno Marzolla, Matteo Magnani, Payam Siyari, Danilo Montesi, "Spreading processes in Multilayer Networks," IEEE Transactions on Network Science and Engineering (TNSE), Vol. 2, Issue 2, March 2015, Pages 65–83. (DOI: 10.1109/TNSE.2015.2425961)
5. Rasool Ramezani, Mostafa Salehi, Matteo Magnani, and Danilo Montesi, "Diffusion of Innovations over Multiplex Social Networks," International Symposium on Artificial Intelligence and Signal Processing, Iran, March 2015.
6. Mostafa Salehi, Payam Siyari, Matteo Magnani, Danilo Montesi, "Multidimensional epidemic thresholds in diffusion processes over interdependent networks," Chaos, Solitons and Fractals, Vol. 72, Feb. 2015, Pages 59–67. (DOI: 10.1016/j.chaos.2014.12.018)
7. Baharan Mirzasoleiman, Hamid R. Rabiee, and Mostafa Salehi, "Modeling the Impact of User Awareness on Immunization Strategies," in Proc IEEE NetSciCom 2014 (co-located with IEEE INFOCOM 2014), Canada, May 2014.
8. Changtao Zhong, Mostafa Salehi, Sunil Shah, Marius Cobzarencu, Nishanth Sastry, and Meeyoung Cha, "Social Bootstrapping: How Pinterest and Last.fm Social Communities Benefit by Borrowing Links from Facebook," in Proc WWW 2014, Korea, April 2014.
9. Soheila Molaei, Mohammad Khansari, Mostafa Salehi, Hadi Veisi, "Predicting Spread of Disease from Twitter," in Proc computer society of Iran, March 2014. (persian)
10. F. Dabiran, H. R. Rabiee, M. Salehi, and A. A. Amidian, "A Traffic-aware Scheduling Algorithm for IEEE 802.16 Mesh Mode", Scientia Iranica, Vol. 21, Issue 3, Jun 2014.
11. S. M. Aghdam, M. Khansari, H. R. Rabiee, and M. Salehi, "WCCP: A Congestion Control Protocol for Wireless Multimedia Communication in Sensor Networks", Elsevier Ad Hoc Networks, Vol. 13, Part B, Feb. 2014, Pages 516–534.
12. E. Zamanian, H. R. Rabiee, and M. Salehi, "Measurement and Analysis of the Youtube Social Network," in Proc Social Networks, Iran, Oct. 2013. (persian)
13. 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, 31 (6), 1007-1016 (2013).
14. H. S. Ayatollahi Tabatabaie, H. R. Rabiee, M. H. Rohban, and 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.
15. 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.
16. 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.
17. 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.
18. M. Yousof Naderi, H. R. Rabiee, M. Khansari, and M. Salehi, "Error Control for Multimedia Communications in Wireless Sensor Networks: A Comparative Performance Analysis," Elsevier - Adhoc Networks, vol. 10, issue 6,

2012.

19. M. Eslami, H. R. Rabiee, M. Salehi, "Sampling from Diffusion Networks," in Proc. ASE Social Informatics, USA, Dec. 2012.
20. P. Siyari, H. R. Rabiee, M. Salehi, and M. Eslami "Network Reconstruction under Compressive Sensing," in Proc. ASE Social Informatics, USA, Dec. 2012.
21. 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.
22. M. Eslami, H. R. Rabiee, and M. Salehi, "Diffusion-Aware Sampling and Estimation in Information Diffusion Networks," in Proc. ASE/IEEE Social Computing, Netherlands, Sep. 2012.
23. A. Ghanbari, H. R. Rabiee, Mohammad Khansari, and M. Salehi, "PPM - A Hybrid Push-Pull Mesh Peer-to-Peer Live Video Streaming Protocol", in Proc. IEEE International Conference on Computer Communication Networks (ICCCN), Germany, July 2012.
24. 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), USA, IEEE, Jan.2012.
25. 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.
26. M. Eslami, H. R. Rabiee, M. Salehi, "DNE: A Method for Extracting Cascaded Diffusion Networks from Social Networks," in Proc. IEEE Social Computing, MIT, USA, Oct. 2011.
27. 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.
28. 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.
29. 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).
30. M. Salehi and S. Khorsandi, "A Centralized Scheduling with Spatial Reuse in IEEE 802.16 based Wireless Mesh Network," in Proc. Iranian Conf. on Electrical Engineering, Tehran, Iran, May. 2008 (Persian).

## TEACHING

- **Spring 2016**, Faculty of New Sciences and Technologies, University of Tehran, Courses: "Crowd Sourcing", "Complex Networks"
- **Fall 2015**, Faculty of New Sciences and Technologies, University of Tehran, Courses: "Mathematics & Statistics", "Information Network Analysis", "Computer Programming for Natural Language Processing"
- **Spring 2015**, Faculty of New Sciences and Technologies, University of Tehran, Courses: "Crowd Sourcing", "Information Network Analysis", "Computer Programming for Natural Language Processing"
- **Fall 2014**, Faculty of New Sciences and Technologies, University of Tehran, Courses: "Pervasive Computing", "Crowd Sourcing", "Computer Programming for Natural Language Processing"
- **Fall 2013**, Faculty of New Sciences and Technologies, University of Tehran, Course: "Pervasive Computing"
- **Fall 2013**, Department of Mathematical Sciences, Sharif University of Technology, Course: "Social and Information Network Analysis"
- **Spring 2013**, Faculty of New Sciences and Technologies, University of Tehran, Course: "Healthcare Multimedia Networks"
- **Fall 2012**: Department of Computer Engineering, Sharif University of Technology, Course: "Computer Networks"
- **Summer and Fall 2011**, Department of Computer Engineering, Sharif University of Technology, Course: "Computer Networks Laboratory"

## Honors and Awards

- Two accepted projects (Multiplex Network Visualization, Polarity Detection in Social Media Sites) for exhibition of research ,Technology and Techmart, Tehran, Iran. Dec. 2015.
- Awarded **visiting scholarship**, Institute Mines-Telecom Telecom SudParis (France), July 2015-Sep. 2015.

## Services

- Awarded **postdoctoral research scholarship**, University of Bologna (Italy), Feb. 2014-Feb. 2015.
- **TPC member:** SocInfo 2016 (the 8th International Conference on Social Informatics), IKT 2015 (The 7th International Conference on Information Knowledge and Technology), ICEE 2015 (The 23rd Iranian Conference on Electrical Engineering), NetSciCom 2015 (The Seventh IEEE International Workshop on Network Science for Communication Networks) co-located with IEEE INFOCOM 2015, SocInfo 2014 (the 6th International Conference on Social Informatics), SocNet 2014 (The 1st IEEE International Workshop on Social Networks, Smart Communities and Smart Devices) co-located with IEEE COMPSAC 2014, NetSciCom 2014 (The Sixth IEEE International Workshop on Network Science for Communication Networks) co-located with IEEE INFOCOM 2014.
- **Reviewer:** Physica A, Social Network Analysis and Mining, Journal of Complex Adaptive Systems Modeling, Journal of Information Systems and Telecommunication (JIST), Global Media Journal
- **Sub-reviewer:** Social Informatics 2012/ Social Computing 2012, 2011/ IST (International Symposium on Telecommunications) 2012, 2010/ AISP (symposium on Artificial Intelligence and Signal Processing) 2013, 2011/ CNDS (International Symposium on Computer Networks and Distributed Systems) 2011/ CSI (The Computer Society of Iran) 2011, 2010/ ICEE (Iranian Conference on Electrical Engineering) 2010.