

CONTACT INFORMATION :

Room 318, Max Planck Institute for Software System, Saarbrucken Campus, Saarbrucken, Germany
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RESEARCH INTEREST:

- Modeling and Analysis of Online Social Networks, Information diffusion over Social Networks
- Data Mining, Graph Mining
- Combinatorial Auctions

EDUCATION:

- Max Planck Institute for Software and Systems**, Saarbrucken, Germany. 2014-present
PhD, in Computer Science. Advisor: Dr. Krishna Gummadi
- Sharif University of Technology**, Tehran, Iran, *Department of Computer Engineering*, 2008-2011
M.Sc. in Computer Engineering.
 • **Thesis:** "Studying the Effect of Structure and the Effects of Personalities on Spreading Information and Behaviors in Social Networks" (20/20) Advisors: Prof. Mahdi Jalili and Dr. Mohammad Ali Safari
- University of Tehran**, Tehran, Iran, *Department of Electrical and Computer Engineering* 2004-2008
B.Sc. in Computer Engineering.
 • **Thesis:** "Game Theory Application in Wireless Network Problems" Advisor: Prof. Ahmad Khonsari

CONFERENCE ARTICLES:

1. **Mahmoudreza Babaei**, A. Chakraborty, J. Kulshrestha, E. Redmiles, M. Cha, K Gummadi, [Analysing Biases in Perception of Truth in News Stories and their Implications for Fact Checking](#) has been accepted at **FAT** 2019
2. Filipe N. Ribeiro, Koustuv Saha, **Mahmoudreza Babaei**, Fabricio Benevenuto, K Gummadi, Elissa M. Redmiles [On Microtargeting Socially Divisive Ads: A Case Study of Russia-Linked Ad Campaigns on Facebook](#) has been accepted at **FAT** 2019
3. **Mahmoudreza Babaei**, A. Chakraborty, J. Kulshrestha, E. Redmiles, M. Cha, K Gummadi, [Analysing Biases in Perception of Truth in News Stories and their Implications for Fact Checking](#) has been accepted at **FairUMAP** 2018
4. FN Ribeiro, L Henrique, F Benevenuto, A. Chakraborty, J. Kulshrestha, **Mahmoudreza Babaei**, K Gummadi, [Media Bias Monitor: Quantifying Biases of Social Media News Outlets at Large-Scale](#). has been accepted at **ICWSM** 2018
5. **Mahmoudreza Babaei**, J. Kulshrestha, A. Chakraborty, F. Benevenuto, K. P. Gummadi and A. Weller. [Purple Feed: Identifying High Consensus News Posts on Social Media](#). In the AAAI/ACM conference on Artificial Intelligence, Ethics and Society (AIES), 2018 [*selected for oral presentation*].
6. Przemyslaw Grabowicz, **Mahmoudreza Babaei** Juhi Kulshrestha, Krishna P. Gummadi and Ingmar Weber, The Road to Popularity: the Dilution of Growing Audience on Twitter , To Appear in (**ICWSM**), 2016 (short paper).
7. **Mahmoudreza Babaei** Przemyslaw Grabowicz, Isabel Valera, Krishna P. Gummadi and Manuel Gomez-Rodriguez, On the Efficiency of Information Networks in Social Media, To Appear in Proceedings of the 9th ACM International Conference on Web Search and Data Mining (**WSDM**), San Francisco, CA, February 2016.
8. **Mahmoudreza Babaei**, Przemyslaw A. Grabowicz, Isabel Valera, Manuel Gomez-Rodriguez, On the Users Efficiency in the Twitter Information Network has been accepted at **ICWSM** 2015! (short paper,22.03.15) ([pdf](#))

JOURNAL PUBLICATIONS:

1. **M.Babaei**, B. Mirzasoleiman, M. Jalili, M. Safari "Revenue Maximization in Social Networks through Discounting," *Social Network Analysis and Mining* (2012): 1-14
2. B. Mirzasoleiman, **M. Babaei**, M. Jalili, "Immunizing Complex Networks with Limited Budget," *Europhysics Letters*, 2012. 98(3):38004. (*Impact Factor* = 2.753)
3. B. Mirzasoleiman, **M. Babaei**, M. Jalili, M. Safari, "Cascaded Failures in Weighted Networks," *Physical Review E*, 2011. 84(4):046114. (*Impact Factor* = 2.352)
4. **M. Babaei**, H. Ghasemieh, and M. Jalili, "Cascading failure tolerance of modular small-world networks". *IEEE Transactions on Circuits and Systems-II*, 2011. 58(8):527-531. (*Impact Factor* = 1.41)

RESEARCH AND WORK EXPERIENCES:

Research Assistant, Max Planck Institute of Software Systems (MPI), Saarbrucken, Germany. May 2014-Present
Developing computational methods to measure social media users' efficiency at acquiring information in social media sites such as Facebook and Twitter

Research Visitor, Korea Advanced Institute of Science and Tech., Daejeon, South Korea. March–Dec. 2013
Analysis of behavioral models for the diffusion of conventions over a social network. Advisor: Meeyoung Cha

Research Visitor, Max Planck Institute of Software Systems (MPI), Saarbrucken, Germany. Aug.–Oct. 2012
Study of large and complex networks, especially online social networks and analyzing the social interactions and collective behavior of hundreds of millions of people in these networks. Advisor: Krishna Gummadi

Research Assistant, Digital Media Laboratory, Sharif University of Technology, Tehran, Iran. April–June 2012
Researched on Cascaded failure in weighted networks. Advisor: Hamidreza Rabiee

Research Assistant, Complex Network Laboratory, Sharif Univ. of Tech., Tehran, Iran. Sept. 2009–March 2012
Researched on diffusion patterns, combinatorial optimization Advisor: Mahdi Jalili

Research Assistant, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran. Sept. 2007–Sept. 2009
Researched on Wimax Networks, Embedded Systems. Advisor: Ahmad Khonsari

HONORS:

- **WSDM Student Travel Scholarship**, 2016
- **Visiting scholar's fellowship** from Korea Advanced Institute of Science and Tech. (**KAIST**), Feb. 2013.
- **Ranked 22th, among more than 13,000 participants** in National M.Sc. Entrance Examination in Computer Engineering, 2009.
- **M.Sc. fellowship of Excellent Student** in Computer Engineering from University of Tehran, 2009.
- **Quarterfinalist** team in contest of SCM TAC, 2006.
- **Selected as top 0.1% out of more than 400,000 participants** in National University Entrance Examination for the B.Sc. degree, 2004.
- Semifinalist of **Iranian National Olympiad in Informatics (INOI)**, 2002. (**Selected as top 1.5% of more than 40,000 participants**)
- Selected for National Organization for Development of Exceptional Talents (NODET), 2000. (**Selected as top 0.1% out of nearly 700,000 participants** through a nationwide exam)

TEACHING EXPERIENCE:

Teaching Assistant, Sharif University, Fall 2009, Fall-Spring 2011.

Teaching Assistant for courses: 1) Game Theory, 2) Pattern Recognition, and 3) Complex Dynamic Networks.

Teaching Assistant, University of Tehran, Spring 2005, Fall 2007. Teaching Assistant for courses:

1) Computer Simulation, 2) Algorithm Design, 3) Data Structure and 4) Discrete Mathematics.

SKILLS:

- **Programming and Tools:** Java, C/C++/C#, Python, Visual Basic, MATLAB, Javascript, SQL Server, MySQL, OpenGL.
- **Network Simulators:** OMNet++, NS2, OPNET