



Ali Khodadadi

Curriculum Vitae

Education

- 2013–present **Ph.D Student in Computer Engineering**, *Sharif University of Technology*, Tehran, Iran.
Thesis Title: *"Analysis and Modeling of User Behavior over Social Media"*.
Supervisor: Prof. Hamid Reza Rabiee
- 2010–2012 **M.Sc. in Information Technology Engineering**, *Sharif University of Technology*, Tehran, Iran, *GPA – 18.66/20*.
Thesis Title: *"Sampling from Complex Networks Considering Activity Level of Nodes"*, (20/20).
Supervisor: Dr. Mohammad T. Manzouri and Prof. Hamid R. Rabiee
- 2006–2010 **B.Sc. in Information Technology Engineering**, *Sharif University of Technology*, Tehran, Iran, *GPA – 17.55/20*.
Thesis Title: *"Measurement and Analysis of CE Network Traffic Using SNORT IDS"*.
Supervisor: Dr. Amir H. Jahangir

Research Interests

- Social Mining User Behavior over Social Media, Network Measurement & Sampling, Network Modeling the Spreading Processes over Networks, Community Detection in Dynamic Analysis and Augmented Networks, Studying Heterogeneous and Multi-Layer Networks.
- Big Data Probabilistic Graphical Models, Bayesian Inference, Large Scale Graph Algorithms, Distributed Processing Paradigms (Map-Reduce, Spark).

Work Interests

- User Behavior Applying modern machine learning tools especially deep learning to model and Modeling predict future user actions in online services in order to provide them the best recommendations.

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Awards & Honors

- 2010 3rd Rank, in Cumulative GPA (**17.55/20**) among more than 35 B.Sc. IT Engineering students of the department, Sharif University of Technology
- 2010 Awarded Fellowship of Exceptional Talent for the M.Sc. Program in Information Technology Engineering from Computer Engineering Department of Sharif University of Technology
- 2006 Achieved the 400th rank in the National University Entrance Examination for the B.Sc. degree among more than 500,000 participants

Experience

Teaching

- Fall 2016 **Teaching Assistant of Stochastic Processes Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Graduate Course, (Prof. Hamid R. Rabiee).
- Summer 2015 **Teaching Network Laboratory Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Undergraduate Course.
- Spring 2015 **Teaching Assistant of Multimedia Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Undergraduate Course, (Prof. Hamid R. Rabiee).
- Spring 2015 **Teaching Assistant of Statistical Learning Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Graduate Course, (Prof. Hamid R. Rabiee).
- Fall 2014 **Teaching Assistant of Stochastic Processes Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Graduate Course, (Prof. Hamid R. Rabiee).
- Summer 2014 **Teaching Network Laboratory Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Undergraduate Course.
- Spring 2014 **Teaching Network Laboratory Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Undergraduate Course.
- Spring 2014 **Teaching Assistant of Statistical Pattern Recognition Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Graduate Course, (Prof. Hamid R. Rabiee).
- Spring 2012 **Teaching Assistant of Multimedia Networks Course**, SHARIF UNIVERSITY OF TECHNOLOGY, Graduate Course, (Prof. Hamid R. Rabiee).

Work

- 2016–present **ML Scientist**, *Tapsell*, Tehran, Iran, Tapsell is the leading mobile online advertising system in Iran with more than 15 million users. In tapsell, I am responsible of realtime bidding system in which we try to predict the conversion rate of campaigns for users. I was involved in all aspects of the system, from design to implementation and keeping the system running in production.
- 2016–present **Data Scientist**, *Tapsell*, Tehran, Iran, In Tapsell, I was a member of the data processing group. In this group, we designed and implemented personalized ad recommender system, fraud detection system, and analytics system..
- 2014–2016 **Researcher**, *ICT Innovation Center*, Tehran, Iran.
Working on diffusion of information, products and rumours over social network.

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- 2013–2014 **3G VAS Consultant**, *Value Added Service Lab*, Tehran, Iran.
Worked as a technical consultant for value added services in 3G mobile networks. I identified potential services for PSTN telephone and agricultural services.
- 2011 **Executive Member of 17th National CSI Computer Conference**, *Sharif University of Technology, Computer Engineering department*, Tehran, Iran.
Worked as a technical member.

Publications

- Published **A. Khodadadi, A. Hosseini, E. Tavakoli, H. R. Rabiee**, "*Continuous-Time User Modeling in Presence of Badges: A Probabilistic Approach*", *Transactions on Knowledge Discovery from Data journal*, ACM, vol. 20, issue 3, April 2018.
- S. A. Hosseini, A. Khodadadi, K. Alizadeh, A. Arabzadeh, M. Farajtabar, H. Zha, H. R. Rabiee**, "*Recurrent Poisson Factorization For Temporal Recommendation*", *Transactions on Network Science and Engineering*, IEEE, 2018.
- M. Ramezani, H. R. Rabiee, A. Khodadadi**, "*Community Detection Using Diffusion Information*", *Transactions on Knowledge Discovery from Data journal*, ACM, vol. 12, issue 2, March 2018.
- A. Hosseini, Keivan Alizadeh, A. Khodadadi, Ali Arabzadeh, Mehrdad Farajtabar, Hongyuan Zha, H. R. Rabiee**, "*Recurrent poisson factorization for temporal recommendation*", 23rd SIGKDD Conference on Knowledge Discovery and Data Mining, 2017.
- A. Hosseini, A. Khodadadi, H. R. Rabiee**, "*HNP3: A Hierarchical Nonparametric Point Process for Modelling Content Diffusion Over Social Media*", *IEEE International Conference on Data Mining (ICDM)*, 2017.
- A. Zarezade, A. Khodadadi, M. Farajtabar, H. R. Rabiee, L. Song, and H. Zha**, "*Correlated Cascades: Compete or Cooperate*", *Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence*, 2017.
- S. Sajadmanesh, H. R. Rabiee, A. Khodadadi**, "*Predicting Anchor Links between Heterogeneous Social Networks*", *International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, San Francisco, CA, USA, IEEE/ACM, 08/2016.
- A. Fattaholmanan, H. R. Rabiee, P. Siyari, A. Soltani-Farani, A. Khodadadi**, "*A Peer to Peer Compressive Sensing Framework for Network Monitoring*", *Communications Letters, IEEE*, vol.19, no.1, pp.38,41, Jan. 2015.
- M.Sc. Thesis **A. Khodadadi**, "*Sampling from Complex Networks Considering Activity Level of Nodes*", *Information Technology M.Sc. Thesis, Department of Computer Engineering, Sharif University of Technology*, 2012 (In Persian).
- B.Sc. Thesis **A. Khodadadi**, "*Measurement and Analysis of CE Traffic Using SNORT IDS*", *Information Technology B.Sc. Thesis, Department of Computer Engineering, Sharif University of Technology*, 2010 (In Persian).

Computer skills

Programming Languages	Java, Kotlin, Python, C, C++, MATLAB, Prolog, Assembly
Databases	Elasticsearch, MongoDB, Cassandra, MySQL
Caching	Redis, Spring Guava (Cafeine)
IDEs and Version Control Tools	IntelliJ IDEA, PyCharm, Eclipse, Git
Tools	Tensorflow, Apache Spark MLlib
Operating System	Linux, Microsoft Windows
Typesetting	L ^A T _E X, MS Office, Open Office
Continuous Delivery Toolset	Jenkins
Web Technologies	HTML, CSS

Languages

Persian	Native
English	Fluent
Arabic	Basic