Keyhan Khamforoosh

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Assistant professor, Department of Computer, Sanandaj branch, Islamic Azad University, Sanandaj, Iran

Pasdaran Street, Sanandaj, Islamic Azad University, Sanandaj, Iran

PROFESSIONAL POSITIONS

**Assistant Professor** October 2014 – present

Sanandaj Branch, Islamic Azad University, Sanandaj, Iran

**Researcher** Nov 2011 - Dec 2014

Science and Research Branch, Islamic Azad University, Tehran, Iran

EDUCATION

**PhD (with honor)**, **Computer** **Engineering** , 2011 - 2014

Science and Research Branch, Islamic Azad University, Tehran, Iran

Tehran, Iran

**Master of Science, Computer Engineering.** 2004 - 2007

Science and Research Branch, Islamic Azad University, Tehran, Iran

Tehran, Iran

**Bachelor of Science, Computer Engineering**, 1999 - 2004

Iran University of Science and Technology, Tehran, Iran

Tehran, Iran

RESEARCH GRANTS **&** FELLOWSHIPS

Full PhD Scholarship, Sanandaj Branch, Islamic Azad University, Iran 2011-2014

SELECTED PEER-REVIEWED JOURNAL PAPERS

### Farough Ashkouti, Keyhan khamforoosh, Amir Sheikhahmadi,Hana Khamfroush ” DHkmeans-ℓdiversity: distributed hierarchical K-means for satisfaction of the ℓ-diversity privacy model using Apache Spark”, Journal of Supercomputing,1-35, July 2021.

### Rahim Rashidi, Keyhan Khamforoosh, Amir Sheikhahmadi,” [Proposing improved meta-heuristic algorithms for clustering and separating users in the recommender systems](https://link.springer.com/article/10.1007/s10660-021-09478-9)”, Electronic Commerce Research,1-26,April 2021,

### K Sabaghian, K Khamforoosh, A Ghaderzadeh,” Presentation of a new method based on modern multivariate approaches for big data replication in distributed environments”,PLOS ONE,vol 16,issue 7,1-18,July 2021

### T Shahgholi, A Sheikhahmadi, K Khamforoosh, S Azizi,” LPWAN-based hybrid backhaul communication for intelligent transportation systems: architecture and performance evaluation” EURASIP Journal on Wireless Communications and Networking 2021 (1), 1-17

### Farough Ashkouti, Keyhan khamforoosh, Amir Sheikhahmadi,” DI-Mondrian: Distributed improved Mondrian for satisfaction of the L-diversity privacy model using Apache Spark”, information Sciences, Feb 2020.

### R.Rashidi , K.Khamforoosh. A.Sheikhahmadi , ” An analytic approach to separate users by introducing new combinations of initial centers of clustering”, accepted to Physica A: Statistical Mechanics and its Applications, Jan 2020.

### MP Akbarpour, K Khamforoosh, V Maihami, “An approach to Improve Particle Swarm Optimization Algorithm Using CUDA”, Soft Computing Journal 8 (2), 2-21,Feb 2020

### Ghazaleh Mohamamdi, Keyhan Khamforoosh, Rafigh Hasani, “The Effectiveness of Programming Training Using Virtual Environment (Scratch Software) in Improving Programming Skills”, Information and Communication Technology in Educational Sciences 41(11),101-118,Sep 2020

### B Khamfroush, MR Akbari Jokar, K Khamforoosh, “A Dual-Objective Nonlinear Model for Network Design with NSGA Algorithm”, Journal of Advances in Computer Research 10 (3), 97-113 ,Aug 2019

### Zareie, A.Sheikhahmadi, K.Khamforoosh, ” Influence maximization in social networks based on TOPSIS”, accepted to Expert Systems with Aplications, Oct 2018.

* Azimi Sefat, P., & KhamForoosh, K. ‘Improvement of Load Balancing Infrastructure in   
  the Cloud Computing Environment by Combining Genetic and Harmonic Search Algorithms.’, Int. J. of Comp. & Info. Tech., (2017) 5(3): 161-167
* Azimi, Saman, and K. Keyhan. "The Design A Fuzzy System in Order to Schedule Sleep and Waking Of Sensors in Wireless Sensor Networks." *Int. J. Eng. Res. Appl* 6 (2016): 37-42.
* Keyhan Khamforoosh “Proposing an efficient algorithm for designing universal nanoelectronic molecular logic gates”, accepted to Molecular Physics, Jun 2015.
* Awat Mandeh, Keyhan Khamforoosh, Vafa Maihami, “Data Fusion in Wireless Sensor Networks using Fuzzy Systems,” accepted to International Journal of Computer Applications, Jan. 2015.
* Keyhan Khamforoosh, Keivan Navi, Ali Jalali, “Designing sustainable nano-electronic base gates using aromatic molecules structures,” Accepted to Journal of Molecular Structure, May 2013.
* Keyhan Khamforoosh,” The Design a Fuzzy System Order to Schedule Sleep and Waking of Sensors in Wireless Sensor Networks”, International Journal of Engineering Research and Application, April 2016.

SELECTED PEER-REVIEWED CONFERENCE PAPERS

* H Moasses, A Ghaderzadeh, K Khamforoosh,” HetEng: An Improved Distributed Energy Efficient Clustering Scheme for Heterogeneous IoT Networks”, IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology, (IAICT), July 2021
* A Ahmadi, K Khamforoosh, “Feature reduction using fuzzy C-means clustering and Firefly algorithm”, 2020 10th International Conference on Computer and Knowledge Engineering (ICCKE),65-70, Oct 2020
* K.Khamforoosh,H.Khamfroush, “A new routing algorithm for energy reduction in wireless sensor networks”, 2009 2nd IEEE International Conference on Computer Science and Information
* hana Khamfroush, Reza Saadat, Ahmad Khamdem zadeh, Keyhan Khamforoosh,” Lifetime Increase for Wireless Sensor Networks Using Cluster-Based Routing”, 2009 International Association of Computer Science and Information Technology
* Keyhan Khamforoosh, Amir Masoud Rahmani, Amir Sheikh Ahmadi,” A new multi-path AODV routing based on distance of nodes from the network center”, 2008 Mosharaka International Conference on Communications, Propagation and Electronics
* K.Khamforoosh,” Clustered balanced minimum spanning tree for routing and energy reduction in wireless sensor networks”, 2011 IEEE Symposium on Wireless Technology and Applications (ISWTA)

NATIONAL CONFERENCE PAPERS

* Keyhan Khamforoosh, “Reliability and trust in mobile Ad-hoc Networks(MANETs)”, The International Congress on Technology, Communication and Knowledge, Oct 2014, Islamic Azad University, Mashhad Branch
* Keyhan Khamforoosh, ”Providing a combination load balancing algorithm for cloud computing services” ,International Conference on Research in Electrical and Computer Engineering, December 2016,Singapore
* Maryam Gholami, Keyhan Khamforoosh, “Backbone formation in wireless Ad-hoc Networks using Distributed Q learning”, The First International Conference on Computer Science and Engineering, Feb 2017
* Tahere Kheradmandan, Keyhan Khamforoosh, “Backbone formation in wireless Ad-hoc Networks using Distributed Q learning”, The First International Conference on Computer Science and Engineering, Feb 2017
* Narges Noori, Keyhan Khamforoosh, “Intelligent Routing techniques in ad hoc networks”, Third International Conference on recent innovations in Electrical and Computer Engineering, September 2016

Books

* One of the author of the book entitled “Fundamental of Cloud Computing” in Persian

Review

* Reviewing for CSAE 2020,1 paper
* Reviewing for WONS2021, 1 paper
* Reviewing fir GlOBCOM2020, 1 paper
* Reviewing for INFOCOM 2022, 2 papers
* Reviewing for PLOS ONE journal,3 papers
* Reviewing for JACR journal, 1 paper
* Cooperation with the University of Kurdistan Technology Incubator Center to reviewing the performance of Danesh Afzar Tiam Company, May 2017

Honors

* Honored teacher of Islamic Azad University, Sanandaj branch in 2020
* Top researcher of Islamic Azad University, Sanadaj branch in 2020
* Winning the second place in chess for academics Competition in Kurdistan province, Feb 2011

Work and executive records

* Member of the University Research Council in 2021
* Scientific Committee chairman at the National Conference on Data Mining, March 2018
* Member of scientific committee at the forth National Conference in Computer and Information Technology, March2017
* Member committee of computer engineering for admission of doctoral students in the different university unit Kurdistan province in 2017
* Vice Chancellor for Education and Student Affairs from 2014 to 2017
* Member of the organizing committee of the comprehensive exam since 2015
* President of the 5th National Robotics Competition of Kurdistan, Feb 2016
* Membership in the Computer and Information Technology Committee to evaluate the scientific ability of applicants from September 2014 to September 2016
* Team supervisor in RoboCup Iran Open competitions, April 2016

VOLUNTEER SERVICE TO THE COMMUNITY

* TPC member, IEEE ISWATA 2011
* TPC member, IEEE SmartGridCom20

LANGUAGE SKILLS

Mother Tongue: Kurdish

Persian: Native

English – Very good

Teaching

* Wireless Sensor Networks
* Cloud Computing
* Big Data
* Research Methods

COMPUTER SKILLS

Programming : C¸ C++¸ Visual Basic, Visual C++, MATLAB