Mohammad Kalantari

Assistant Professor, Department of
Computer Engineering,
Shahid Rajaee Teacher Training University
Tehran,
IRAN

Tel:
Tel: (Office)
Email: mkalantari@sru.ac.ir

EDUCATION

- **2001–2008**   Ph.D. in Software Engineering, Department of IT & Computer Engineering, Amirkabir University of Technology, Tehran, Iran.
  PhD Thesis: An Efficient Scheduling System for Grid Computing Environment.
- **1998-2001**   M.Sc. in Software Engineering, Department of IT & Computer Engineering, Amirkabir University of Technology, Tehran, Iran.
  Master Thesis: Network Management in Application Layer.
- **1993-1998**   B.Sc. in Software Engineering, Department of Computer Engineering, Iran University of Science & Technology.
  Thesis: HMM Based Speech Recognition.
- **1989-1993**   Diploma in Mathematic and Physics, The 15th Khordad High School, Sari, Iran.

RESEARCH INTEREST

- Signal Processing
- Array Signal Processing (Spherical Microphone Array Processing)
- Sampling Theory
- Compressed Sensing
- Statistical Signal Processing
- Stochastic Processes
- Speech Signal Processing (Speech Enhancement)

PUBLICATIONS

- M. Kalantari, "An Approach for Solving Signal Cancellation Problem in Spherical Microphone Array", *Journal of Electrical and Computer Engineering Innovations (JECEI)*, 2021.
- M. Kalantari, M. M. Tuyserkani, H. Amiri, "A General Approach for Operational Bandwidth Extension in Spherical Microphone Array", accepted in *Journal of Electrical and Computer Engineering Innovations (JECEI)*, 2021.

- M. Ebadi, H. R. Kanan, M. Kalantari, "Face Recognition Using Patch Manifold Learning Across Plastic Surgery From a Single Training Exemplar per Enrolled Person ", *Signal, Image and Video Processing,* 2020.

- M. Kalantari, S. Sohrabi, H. R. Kanan,"A Hybrid Optimization Algorithm Based on Genetic Algorithm and Hyper Spherical Search Based on Chaos Theory", *Journal of Iranian Association of Electrical and Electronics Engineers*, 2019.

- M. Kalantari, S. R. Gooran, H. R. Kanan, "Improved Embedded Pre-whitening Subspace Approach for Enhancing Speech Contaminated by Colored Noise", *Speech Communication*, 2018.

- M. Kalantari, S. Sohrabi, H. R. Kanan, H. Karami, "Hyper Spherical Search Optimization Algorithm based on Choas Theory", *Iranian Journal of Electrical and Computer Engineering*, 2018.

- R. Bejani, M. Kalantari, A. M. Eftekhari Moghaddam, "A Game Theory Framework to Cooperate Nodes in Malicious Nodes Detection Process in Wireless Sensor Network", *Tabriz Journal of Electrical Engineering,* 2018.

- H. Nourikhah, M. K. Akbari, M. Kalantari, "Modeling and Predicting Measured Response Time of Cloud-Based Web Serives Using Long-Memory Time Series", *Supercomputing*, 2014.

- M. Kalantari, M. K. Akbari, "A Parallel Solution for Resource Scheduling in Grid Computing Environment", *FGCS, International Journal of Grid Computing: Theory, Methods and Applications*, 2008.

- M. Kalantari, M. K. Akbari, "Fault-aware Grid Scheduling Using Performance Prediction by Workload Modeling", *Supercomputing*, 2008.

- M. Kalantari, M. K. Akbari, "Grid Performance Prediction Using State-Space Model", *Concurrency and Computation: Practice and Experience*, 2009.

- M. Dastanzand, M. Kalantari. S. Golzari, "Dynamic Artificial Immune System and its Application to File Transfer Scheduling Optimization", *15th IEEE/ACIS Int. Conf. on SNPD*, 2014.

- M. Dastanzand, M. Kalantari. S. Golzari, "File Transfer Scheduling Optimization Using Artificial Immune System", *14th IEEE/ACIS Int. Conf. on SNPD*, 2013.

- M. S. Roudbari, M. Kalantari, "A Hybrid Approach for Dimensionality Reduction of Feature Space for Improving Text Classification Performance based on Swarm Intelligence", *7th Iran Data Mining Conference/IDMC, Tehran, IRAN*, 2013.

- R. Karimi, M. Kalantari, "Enhancing Security and Confidentiality on Mobile Device by Location Based Data Encryption", *17th IEEE Conf. on ICON*, 2011.

- M. Kalantari, S. Khorsandi, "An Application-Centric Network Management Framework and It's Implementation For Proactive Management of Web Client", *International Journal of Communication Engineering, Volume 2, No. 2, Winter* 2003.

- Mohammad K. Akbari, Mehdi Hoseini Nezhad, M. Kalantari, "Neural Network Realization of File Transfer Scheduling", *The CSI Journal of Computer Science and Engineering*, 2006.

- M. Kalantari, S. Khorsandi, "Design and Implementation of a Network Management Framework in Application Layer for Web Browser Management", *in The Proceeding of 7th Annual Computer Society of Iran Computer Conference, CSICC*, 2002.

- M. Kalantari, S. Khorsandi, M. K. Akbari, "A Novel Model to Fault Tolerance and Load Balancing in CORBA Environment", *First International Conference on Information and Knowledge Technology (IKT 2003), Tehran, Iran*, 2003.

- M. Kalantari, R. Safabakhsh, "Improved Unsupervised Clustering with Spiking Neurons", *The Proceeding of 9th Annual Computer Society of Iran Computer Conference, CSICC*, 2004.

- M. Kalantari, H. Tasdighi, A. Kashfi, S. Khorsandi, "Network Management", *Technical Report, Submitted to Iran Telecommunication Research Center*, 2001.

- مجید کریمی، محمد کلانتری، **تخمین نسبت سیگنال به نویز پیشین با استفاده از نگرش کاهش نویز دو مرحله ای و تخمین زننده های بیزین**، نخستین کنفرانس پردازش سیگنال و سیستمهای هوشمند (SPIS)، تهران، ایران، ۱۳۹۴.

- زهرا سادات تقوی، هدیه ساجدی، محمد کلانتری، **هرس دسته بند تجمیعی با استفاده از انتخاب پیشروانه الگوریتم جستجوی ممنوعه**، نوزدهمین کنفرانس ملی سالانه انجمن کامپیوتر ایران، تهران، ایران، ۱۳۹۲.

- سحر داددهشتی، محمد کلانتری، **بهبود الگوریتم کلونی زنبورهای مصنوعی برای زمانبندی برنامه های جریان کار در محیط رایانش ابری**، بیست و یکمین کنفرانس ملی سالانه انجمن کامپیوتر ایران، تهران، ایران، ۱۳۹۴.

- مهرناز کشفی، محمد کلانتری، **طبقه بندی دستگاه‌های موسیقی سنتی با استفاده از ویژگیهای طیفی**، کنفرانس بین المللی یافته‌های پژوهشی در مهندسی برق و علوم کامپیوتر، دانشگاه تهران، تهران، ایران، ۱۳۹۴.

RECOGNITIONS

- Ranked Second in M.Sc. (Software Engineering Field). IT & Computer Engineering Department, Amirkabir University of Technology.
- Ranked First in Ph.D. Entrance Exam, 2001.

TEACHING EXPERIENCE

Department of IT & Computer Engineering, Amirkabir University of Technology
- Course: Decision Theory.
- Course: Time Series and Forecasting.

Department of Computer Engineering, Iran University of Science and Technology, Behshahr branch
- Course: Signals and Systems.
- Course: Performance Modeling and Evaluation.

Department of Computer & Electrical Engineering, Shahid Rajaee Teacher Training University
- Course: Sampling Theory
- Course: Speech Signal Processing.
- Course: Digital Signal Processing.
- Course: Optimization.
- Course: Statistical Signal Processing.
- Course: Signals and Systems

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EXTRACURRICULAR ACTIVITIES

- M. Kalantari, S. Khorsandi , "Software Management", Workshop in 10th Iranian Electrical Engineering Conference, Mashhad, 2003.
- M. Kalantari, H. Tasdighi, S. Khorsandi, "Application Management", Workshop in Iran Telecommunication Research Center, 2002.

WORK EXPERIENCE

2002-2003 *Iranian High Performance Computing Research Center (IHPCRC), AmirKabir University of Technology*

- Feasibility study for design and implementation of SSI (Single System Image) System for AkuCluster (First Iranian Supercomputer).