



**Kiarash Mizanian**  
Assistant Professor  
Department of Computer Engineering  
Yazd University  
Yazd, Iran  
P.O. BOX 89195-741

Office: Room #219, CE Department  
Phone: (+98 35) 31232373  
Fax: (+98 35) 38200144  
Email: [K.Mizanian@yazd.ac.ir](mailto:K.Mizanian@yazd.ac.ir)

My name is Kiarash Mizanian. I've been on the faculty at Yazd University since 2006. I received my PhD in Computer Architecture from Iran University of Science & Technology.

## Education

- **Ph.D. in Computer Architecture (GPA: 19 out of 20)**
  - Iran University of Science & Technology, Degree 06/2010, 02/2001-11/2005
  - Dissertation: *Modeling Peer-to-Peer Traffic using Modified Alternating Fractal Renewal Process*
  - Advisor: Prof. Morteza Analoui
- **MS. in Computer Architecture**
  - Sharif University of Technology, Degree 02/2001, 09/1998-07/2000
  - Dissertation: *Design and Implementation of a Router Accelerator*
  - Advisor: Prof. Amir Hossein Jahangir
- **BS. in Computer Engineering**
  - Sharif University of Technology, Degree 07/1998, 09/1994-07/1998
  - Dissertation: *Design and Implementation of a Wireless Mouse*
  - Advisor: Dr. Afshin Hemmatyar

## Research

Broadly, I am interested in different aspects of computer networks, including traffic engineering, capacity planning, queuing analysis and network security.

- Analytic Modeling of Communications Systems
- Statistical Modeling and Computing
- Machine Learning
- Peer-to-Peer Networks
- Internet Architecture and Protocol Designs
- Social Networks, Theory and Algorithms

## Publications

- **Refereed Book Chapters**
  1. **Kiarash Mizanian**, Alireza Karimi, "Computer Network Management (Volume 1 & 2)", NASS Publishers, ISBN 978-964-410-369-8, April 2016
  2. **Kiarash Mizanian**, Kiarash Mizanian, "Computer Network Management (Volume 1)", Yazd University Publishers, ISBN 978-600-6309-57-6, December 2014
  3. **Kiarash Mizanian**, Nader Yadollahi, "Wireless Sensor Networks Implementation With Microcontroller", Yazd University Publishers, ISBN 978-600-6309-24-8, April 2013
- **Refereed Journal Publications**
  1. Ahmad Haghghi, **Kiarash Mizanian**, "Improved MCBDS for defending against gray hole and black hole attacks in MANETs", *Advances in Science and Technology Research Journal*, ISSN 2299-8624, Vol. 10, No. 30, June 2016
  2. **Kiarash Mizanian**, Mehdi Vasef, Morteza Analoui, "The modified alternating fractal renewal process for modeling peer to peer traffic", *International Journal of Computer Systems Science and Engineering*, Vol. 24, pp. 409-422, November 2009
  3. **Kiarash Mizanian**, Mehdi Vasef, Morteza Analoui, "Bandwidth modeling and estimation in peer to peer networks", *International Journal of Computer Networks & Communications*, Vol. 2, No. 3, pp. 65-83, May 2010

- **Refereed Conference Publications**

1. Ali Mortazavi, **Kiarash Mizanian**, "*Improved RFH (IRFH): offering a traffic based dynamic data replication in cloud storage*", 21<sup>st</sup> Annual National Conference of Computer Society of Iran, Iran, Tehran, IPM, March 2016
2. Hossein KheriAbadi, **Kiarash Mizanian**, "*Study load balancing algorithms in the cloud computig*", 1<sup>st</sup> National Conference on Soft Computing, Iran, Gilan, Gilan University, November 2015
3. Ahmad Haghighi, **Kiarash Mizanian**, Ghasem Mirjalily "*Modified CBDS for defending against collaborative attacks by malicious nodes in MANETs*", 2<sup>nd</sup> International Conference on Knowledge-Based Engineering and Innovation, Iran, Tehran, Iran University of Science and Technology, November 2015
4. Ahmad Haghighi, Samane HajiRamezan, **Kiarash Mizanian**, "*Providing a new method to deal with th Byzantine attack in intrusion detection system with dynamic hierarchy in MANETs*", 2<sup>nd</sup> International Conference on Applied Research in Computer & Information Technology, Iran, Tehran, Tehran University, February 2015
5. Fariba Osali, **Kiarash Mizanian**, Ghasem Mirjalily, Danesh Zeynali, "*A review on QoS aware Tree based Multicast Routing Protocols on Mobile Ad hoc Networks*", 1<sup>st</sup> Conference on Information & Communication Technology, Iran, Tehran, Shahid Beheshti University, May 2015
6. Fariba Osali, **Kiarash Mizanian**, Ghasem Mirjalily, Danesh Zeynali, "*Survey on Multicast routing based on MAODV in Mobile Ad hoc Networks*", 2<sup>nd</sup> International Conference on Applied Research in Computer & Information Technology, Iran, Tehran, Tehran University, February 2015
7. Mohammad Roustaei, **Kiarash Mizanian**, Mehdi Agha Sarram "*A Survey on using NDN for improving Data Propagation in VANETs*", National Conference On Researches Or Computer Engineering, Iran, Tehran, Shahid Beheshti University, December 2014
8. Mohammad Roustaei, **Kiarash Mizanian**, Mehdi Agha Sarram "*A Survey on How to Improve Network communication Parameters in VANET using NDN Architecture*", 1<sup>st</sup> National Industrial Mathematics, Iran, Tabriz, Tabriz University, May 2014
9. Batoul Sarvi, **Kiarash Mizanian**, Mehdi Agha Sarram, "*The Introduction of Multimedia Wireless Sensor Networks and Its Challenges*", 9<sup>th</sup> Symposium on Advances in Science & Technology, Iran, Mashhad, Khavaran Institute of Higher Education, December 2014
10. Batoul Sarvi, **Kiarash Mizanian**, Mehdi Agha Sarram, "*A Survey on Error Control Mechanism for Multimedia Communications in Wireless Multimedia Sensor Networks*", 9<sup>th</sup> Symposium on Advances in Science & Technology, Iran, Mashhad, Khavaran Institute of Higher Education, December 2014
11. Mohammad Mehdi Mirzaei, **Kiarash Mizanian**, Mehdi Rezaeian, "*Modeling of Self-Similar Network Traffic Using Artificial Neural Networks*", 4<sup>th</sup> International Conference on Computer and Knowledge Engineering, Iran, Mashhad, Ferdosi University of Mashhad, October 2014
12. Kowsar Noghrei, **Kiarash Mizanian**, "*Opportunistic Networks Routing Protocols, A Survey*", 8<sup>th</sup> Symposium on Advances in Science & Technology, Iran, Mashhad, Khavaran Institute of Higher Education, December 2013
13. Kowsar Noghrei, **Kiarash Mizanian**, "*Opportunistic Networks Introduction, A Survey*", 8<sup>th</sup> Symposium on Advances in Science & Technology, Iran, Mashhad, Khavaran Institute of Higher Education, December 2013
14. Farnaz Amin, **Kiarash Mizanian**, Ghasem Mirjalily, "*Active Queue Management for Self-Similar Network Traffic*", 21<sup>st</sup> Iranian Conference on Electrical Engineering, Iran, Mashhad, Ferdowsi University, May 2013
15. Mohammad Mehdi Mirzaei, **Kiarash Mizanian**, Mehdi Rezaeian, "*Impacts of Different Parameters on Self-similarity of Computer Network Traffics A Case Study of Yazd University Network Traffic*", 18<sup>th</sup> National CSI Computer Conference, Iran, Tehran, Sharif University, March 2013
16. Mohammad Mehdi Mirzaei, **Kiarash Mizanian**, Mehdi Rezaeian, "*A comparison between Self-similarity of Network Traffics for Different Protocols*", 7<sup>th</sup> SASTech 2013, Iran, Bandar-Abbas, March 2013
17. Farnaz Amin, **Kiarash Mizanian**, "*Buffer Management for Self-Similar Network Traffic*", 6<sup>th</sup> International Symposium on Telecommunications (IST2012), Iran, Tehran, Iran Telecom Research Center, November 2012
18. Farnaz Amin, **Kiarash Mizanian**, "*Evaluation and Comparison of Queue Management Algorithms on Computer Networks Performance*", National Congress on Electrical, Computer and Information Technology Engineering, Iran, Mashhad, Khayyam University, November 2012
19. **Kiarash Mizanian**, Reza Zakeri, Morteza Analoui, "*User Modeling using Network Layer Information*", 5<sup>th</sup> IEEE international conference on networking, 2005
20. **Kiarash Mizanian**, Mehdi Salmani, Morteza Analoui, "*A New Adaptive Transport Protocol for Web Traffic*", Canadian Conference on Electrical and Computer Engineering, 2005
21. Mehdi Salmani, **Kiarash Mizanian**, "*Power Aware Scan-Based Testing using Genetic Algorithm*", Canadian Conference on Electrical and Computer Engineering, 2005
22. **Kiarash Mizanian**, Reza Zakeri, Morteza Analoui, "*A New Framework for Network Layer Based User Modeling*", 11<sup>th</sup> international CSI computer conference, 2005
23. **Kiarash Mizanian**, Mehdi Vasef, "*Investigation of Different Wavelet Bases for LRD Traffic Prediction*", Network and Communication Systems, 2005
24. **Kiarash Mizanian**, Mehdi Vasef, "*A Mathematical Model for Long Range Dependent Peer to Peer Traffic at the Individual Peer*", Communication Systems and Applications, 2005

## **Professional Activities**

- **2006 - Present**, Faculty member, Department of Computer Engineering, Yazd University
- **2012 - Present**, Manager, Information Technology, Yazd University
- **2006 - Present**, Member of National Foundation of Genius, Bonyad-Melli-Nokhbegan
- **2006 - 2013**, Coach of the teams in the ACM Programming Contest, Yazd University
- **1998 - 2013**, Managing Director, Sepanta Communications Development Co. Ltd.
- **2005 - 2013**, Chairman of the Board, Sepanta Robotics & Research Foundation
- **2005 - 2011**, Chairman of the Board, Pishgaman Towse Ertebatat
- **2004 - 2005**, President, Pishgaman Towse Ertebatat
- **2004**, Coach of the teams in Robocup 2004, Italy, Iran University of Science & Technology

## **Teaching**

- **Graduate**
  - Computer Network Management
  - Advanced Computer Network Security
  - QOS in Computer Networks
- **Undergraduate**
  - Computer Networks

## **Official WebPages**

- **University Webpage (English Version):** <https://www.yazd.ac.ir/en/mizanian>
- **University Webpage (Persian Version):** <https://www.yazd.ac.ir/mizanian>
- **Personal Website (English Version):** <http://www.kiarash.net>