

## Personal Information

**Surname / First name:** Shahraeini Mohammad

**Email:** m.shahr@gu.ac.ir

**Nationality:** Iran

**Date of birth:** 25 March 1977



## Education

- Sep 2006– Oct 2011: PhD in Electrical Engineering (With Honors)  
Concentration in Wide Area Measurement Systems.  
Faculty of Engineering, Ferdowsi University of Mashhad, Mashhad, Iran.  
Dissertation: “Comprehensive Optimization of Wide Area Measurement Systems”.  
Supervisor: Hossein Javidi.
- Sep 2000– Sep 2003: M.Sc in Electrical Engineering  
Concentration in Telecommunication and Computer Network.  
Faculty of Engineering, University of Tehran, Tehran, Iran.  
Faculty of Engineering, Ferdowsi University of Mashhad, Mashhad, Iran.  
Thesis: “Web Servers Availability Analyzer Tool”.  
Supervisor: Ali Peiravi.
- Sep 1995 – Sep 2000: B.Sc. in Electrical Engineering (With Honors)  
Concentration in Electric and Electronic Circuits.  
Faculty of Engineering, Ferdowsi University of Mashhad, Mashhad, Iran.  
Thesis: “Measurement Test with Phantom Loading Method”.  
Supervisor: Hossein Taba.

## Academic Work Experience

Oct 2011- Present	Assistant Professor, Dep. of Elec. Engineering, Golestan University, Gorgan, Iran
Sep 2011-Sep 2012	Lectureship, Islamic Azad University, Branch of Mashhad, Mashhad, Iran
Jan 2004 - Sep 2007	Lectureship, Islamic Azad University, Science and Research Branch of Khorasan Razavi, Neyshabour, Iran

## Academic Administrative Experiences

Apr 2016- Present	Executive Manager for “Infrastructure Group” in “Cloud of Thing Research Center”, Golestan University
May 2012-May 2017	Executive Manager for Information and Communication (ICT) Center, Golestan University
Oct 2011 - May 2012	Associate Dean in Academic Affairs, Faculty of Engineering, Golestan University
Feb 2000 - Feb 2004	Computer Network Administrator, Faculty of Engineering, Ferdowsi University of Mashhad

## Industrial Work Experience

Mar 2002 - Oct 2011	ISP Manager, Mashhad Electrical Energy Distribution Co. Mashhad, Iran
Sep 2008 - Sep 2010	Toos Ashena Internet Service and Distribute Provider. Mashhad, Iran
Sep 2006 - Sep 2008	Technical Manager, Toos Ashena Internet Service and Distribute Provider. Mashhad, Iran

## Teaching and Mentoring Activities

Co-supervisor of 2 PhD Students  
Supervisor of 16 MSc Students

## Teaching

Course Name	Institution	Date
<b>Graduate</b>		
Advanced Engineering Mathematics	Golestan University	2016-2020
Modeling of Cyber Physical Systems	Golestan University	2018-2020
Research Methodology	Golestan University	2015-2016
Selecta Capita in Power Systems: Smart grids	Tehran University, Ferdowsi University of Mashhad	2011-2012
Selecta Capita in Power Systems: Wide Area Measurement Systems	Tehran University, Ferdowsi University of Mashhad	2011-2012
Population Based Optimization Algorithms	Islamic Azad University, Science and Research Branch of Khorasan Razavi	2011-2012
Selecta Capita in Computer Engineering: Research Methodology	Islamic Azad University, Science and Research Branch of Khorasan Razavi	2011-2012
<b>Under Graduate</b>		
Signals and Systems	Golestan University	2012-2018
Engineering Mathematics	Golestan University	2011-2014
Electric Machinery II	Golestan University	2011-2020
Computer Networks	Golestan University	2015-2016
Data Transfer in Computer Networks	Islamic Azad Uni., Mashhad Branch	2005-2007
Electric Circuits	Islamic Azad Uni., Mashhad Branch	2005-2006
Electrical Circuits	Islamic Azad Uni., Mashhad Branch	2005-2006

## Awards and Honors

First Ranking Student in BSc, Ferdowsi University of Mashhad, 2000.

PhD Students Excellence in Research Awards, Ferdowsi University of Mashhad, 2011

## **Workshops, Seminars, and Conferences**

Technical Seminar, “Network Processors”, Motamen Khorasan Company. Mashhad, Iran, Dec 2002.

Researched Based Seminar, Ferdowsi University of Mashhad. “Layer 2 to 7 Ethernet Switches”. Mashhad, Iran, 2002.

Technical Seminar, Institute of Electric and Electronic Engineers- Khorasan Branch, “Internet Applications in Power System”. Mashhad, Iran, Feb 2004.

Technical Seminar, Mashhad Electrical Energy Distribution Company, “Information and Communication Technologies (ICT) Applications in Distribution Networks, Mashhad, Iran, Nov. 2009.

## **Research Experience**

Sadjad Research Center, Designing Security System, 1998, Mashhad, Iran.

Mashhad Electric Energy Distribution Co. Automation System Assembly. 2001, Mashhad, Iran

Motamen Khorasan Company, Shahid Hashemi Nezhad (Khangiran) Gas Processing Co. Wide Area and Industrial Data Network Design. 2002-2003, Sarakhs-Mashhad, Iran.

Ferdowsi University of Mashhad Internship Programs:

- Value of Lost Load Calculation.
- Communication Infrastructure Planning for Wide Area Measurement System.
- ICT Applications Survey for Distribution Systems.
- Mashhad Electrical Energy Distribution Company Metropolitan Area Network Packet Analyzing.

## **Accompanying Conferences, Congresses and Workshops:**

### **Conferences:**

11th Annual (International) Conference on Mechanical Engineering, Mashhad, Iran, May 2003.

5th Conference on Intelligent Systems, Ferdowsi University of Mashhad, October 14, 2003.

12th Iranian Conference on Electrical Engineering (ICEE), Mashhad, Iran, 2004.

### **Congresses:**

8th National Iranian Chemical Engineering Congress, Mashhad, Iran, Oct. 2003.

First Iranian E-Commerce Congress, Mashhad, Iran, Mar. 2009.

**Workshops:**

Mitel Training Department, “MN3300 ICP System Administration & Maintenance Course (XCC-32),” Tehran, Iran, Dec. 2008.

Dotcom Technical Workshop, “Planet VOIP Installation & Configuration,” Tehran, Iran, Sep. 2005.

Dotcom Technical Workshop, “Planet Wireless System Installation & Configuration,” Tehran, Iran, Sep. 2005.

**Field of Interest**

Wide Area Measurement Systems

Critical Infrastructure Protection

Cyber Physical Systems

Complex Networks

Controlled Networks

Power System ICT

Power Plant/Substation Automation

## **Invited Author:**

### **Books:**

M. Shahraeini and P. Kotzanikolaou, “Resilience in Wide Area Monitoring Systems for Smart Grids,” in *Power Systems, Springer International Publishing*, 2020, pp. 555–569.

M. Shahraeini and M. H. Javidi, Invited author of book chapter “Wide Area Measurement Systems” in “Advanced Topics in Measurement” (Chapter 15, Intech Press; ISBN 979-953-307-479-4), pp. 303-322

## **Selected Publications**

### **Peer Reviewed Journals:**

SHAHRAEINI M., KOTZANIKOLAOU P., “A Dependency Analysis Model for Resilient Wide Area Measurement Systems in Smart Grid”, *IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS*, Vol. 38, No. 1, PP. 156\_168, 2020.

SAEED SABAEE M., SALMANMAHINY A., SHAHRAEINI M., MIR KARIMI S., DABIRI N., “Compactness for Regionalization and its Application in Land-Use Planning”, *Environmental Resources Research*, Vol. 5, No. 2, PP. 183\_196, 2017.

KAMYAB H., SALMAN MAHINY A., SHAHRAEINI M., “LAGA Software for Landscape Allocation using Genetic Algorithm”, *Environmental Resources Research*, Vol. 4, No. 2, PP. 153\_166, 2016.

F. Khodabakhshi, M. Shahraeini, “Designing an expert system for diagnosis of TB,” *Journal of Research & Health*, Vol. 1, No. 3, 2013

M. Shahraeini, M. H. Javidi, and M. S. Ghazizadeh, “Communication Infrastructure Comparison Between Centralized and Decentralized Wide Area Measurement Systems,” *IEEE Trans. on Smart Grid*, vol. 2, no. 1, pp. 206-211, Mar. 2011.

M. Shahraeini, M. H. Javidi, and M. S. Ghazizadeh, “Dependent Communication Systems: A New Approach for Designing Communication Infrastructures of Smartgrid,” *Journal of Information and communication technologies*, vol. 1, no. 2, Jul. 2011, pp. 17-24.

M. Shahraeini, M. H. Javidi, and M. S. Ghazizadeh, “Communication Infrastructure Planning for Wide Area Measurement Systems in Power Systems,” *International Journal of Communication Networks and Distributed Systems (IJCND)*, 2014.

M. Shahraeini, M. H. Javidi, and M. S. Ghazizadeh, “Co-Optimal Placement of Measurement Devices and Their Related Communication Infrastructure in Wide Area Measurement Systems,” *IEEE Trans. Smart Grid*, June 2012.

A. Peiravi, M. Shahraeini, “Development of a Web Availability Analyzer Software Tool,” *Journal of American Science*, vol. 6, no. 6, pp. 89-95, Jun. 2010.

## Conferences:

SHAHRAEINI M., FARMANI Z., “Designing of Communication Systems in Advanced Metering Infrastructure (AMI) using Wi-Fi Offloading Technology”, *Proceedings of 9th International Conference on Computer and Knowledge Engineering (ICCKE 2019)*, PP. 60\_66, 2019.

M. Shahraeini and M. H. Javidi, “A New Approach for Comparing Communication Infrastructures of Power Systems,” in *IEEE Power Engineering and Automation Conference (PEAM 2011)*, Wuhan, China, Sep. 8-9, 2011.

M. Shahraeini and M. H. Javidi, “A Survey on Power System Topological Observability,” in *IEEE Power Engineering and Automation Conference (PEAM 2011)*, Wuhan, China, Sep. 8-9, 2011.

M. Shahraeini and S. Alishahi, “A survey on information and communication technology (ICT) applications in distribution systems,” in *21st International Conference and Exhibition on Electricity Distribution*, Germany, Jun. 2011.

M. Shahraeini and M. H. Javidi, “A New Method for Comparing Control Networks of Power Systems,” in *19th Iranian Conference on Electrical Engineering (ICEE)*, Tehran, Iran, 17-19 May. 2011.

M. Shahraeini and M. H. Javidi, “A new approach for finding minimum delay control centers of control networks,” in *2010 Fifth International Symposium on Telecommunications (IST2010)*, Dec. 4-6, 2010, Tehran, Iran, pp 938-943.

M. Shahraeini, M. H. Javidi, and M. S. Ghazizadeh, “A New Approach for Classification of Data Transmission Media in Power Systems,” in *2010 International Conference on Power System Technology (POWERCON2010)*, China, Oct. 24-28, 2010, pp 1-7.