



Hemin Golpîra

Born: 9-March-1986
Gender: Male
Place of Birth: Sanandaj, Kurdistan, Iran

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EDUCATION

University of Wisconsin-Madison Madison, USA
Honorary Associate Fellow, PSERC 2014-2015
Supervisor: Prof. Robert H. Lasseter

Tarbiat Modares University Tehran, Iran
Ph.D. in Electrical Engineering, Power System 2011-2015
Thesis: Frequency stability assessment in large-scale power systems considering high penetration of Micro-Grids
Supervisor: Prof. Hossein Seifi
GPA (without thesis grade): 17.66/20 (**with honor**)
Thesis score: 19.5/20

University of Kurdistan Kurdistan, Iran
M.Sc. in Electrical Engineering, Power System 2008-2011
Thesis: AVR-PSS co-ordination in the presence of renewable energy sources
Supervisor: Prof. Hassan Bevrani
GPA: 18.52/20 (**with honor**)

University of Kurdistan Kurdistan, Iran
B.Sc. in Electrical Engineering, Electronic 2004-2008
Thesis: Reversible medical image watermarking based on wavelet histogram shifting
Supervisor: Prof. Habibolah Danyali
GPA: 16.70/20 (**with honor**)

Zanyaran High School Kurdistan, Iran
Diploma, Mathematics and Physics 2000-2004
GPA: 18.70/20

PUBLICATIONS

Refereed Journal Articles.....

- 1- **H. Golpîra**, Hossein Seifi, Arturo-Roman Messina, M.R. Haghifam “Maximum Allowable MGs Penetration level Calculation in Large-Scale Interconnected power Systems: Frequency Stability Viewpoint” *IEEE Transactions on Power Systems*, 10.1109/TPWRS.2016.2538083.

- 2- **H. Golpîra**, H. Seifi, and M.R. Haghifam “Dynamic Equivalencing of an Active Distribution Network for Large-Scale Power System Frequency Stability Studies”, *IET Generation, Transmission and Distribution*, Vol. 9, No. 15, pp. 2245-2254, 2015.
- 3- **H. Golpîra**, M.K. Shiekh-El-Eslami, and H. Seifi “Power System Stabilizer Services Pricing in an Electricity Market”, *Electric Power Components and Systems*, Vol. 43, No. 18, pp. 2050-2058, 2015.
- 4- **H. Golpîra**, M.R. Haghifam, and H. Seifi “Dynamic power system equivalence considering distributed energy resources using Prony analysis”, *International Transactions on Electrical Energy Systems*, Vol. 28, No. 8, pp. 1539-1551, 2015.
- 5- **H. Golpîra** and H. Bevrani “A Framework for Economic Load Frequency Control Design in an interconnected power system”, *Electric Power Components and Systems*, Vol. 42, No. 8, pp. 779 – 788, 2014.
- 6- **H. Golpîra**, H. Bevrani, and A. Hesami Naghshbandy “An Approach for coordinated AVR-PSS Design in Large Scale Interconnected Power Systems Considering Wind Power Penetration”, *IET Generation, Transmission & Distribution*, Vol. 6, No. 1, pp. 39-49, 2012.
- 7- **H. Golpîra**, H. Bevrani, and H. Golpîra “Application of GA Optimization for Automatic Generation Control Design in an Interconnected Power System”, *Energy Conversion and Management*, Vol. 52, No. 5, pp. 2247-2255, 2011.
- 8- **H. Golpîra**, and H. Danyali “Reversible Medical Image Watermarking Based on Wavelet Histogram Shifting”, *Imaging Science Journal*, Vol. 59, No. 1, pp. 49-59, 2011 (Obtained from My B.Sc. project).
- 9- **H. Golpîra**, H. Bevrani, and H. Golpîra “Effect of Physical Constraints on the AGC Dynamic Behavior in an Interconnected Power System”, *Int. Journal of Advanced Mechatronic Systems*, Vol.3, No. 1, pp. 79-87, 2011.
- 10- H. Golpîra, and **H. Golpîra** “Application of signal processing technique for the modification of a fruit sorting machine”, *Int. Journal of Advanced Mechatronic Systems*, Vol.5, No. 2, pp. 122-128, 2013.
- 11- **H. Golpîra**, H. Bevrani, and A. Hesami Naghshbandy “A Survey on Coordinated Design of Automatic Voltage Regulator and Power System Stabilizer”, *Int. Review of Automatic Control*, Vol. 3, No. 2, pp. 172-182, 2010.
- 12- H. Golpîra, **H. Golpîra**, and B. Hosseinzadeh “Design, Development and evaluation of weight sorting automatic machine for apple”, *Food Research Journal*, Vol. 19, No. 1, pp. 37-46, 2009 (In Persian).

Refereed Conference Articles

- 1- **H. Golpîra**, M.P. Moghadam, and H. Seifi, “Predictive Reliability-Centered-Maintenance for Asset Management and Enabling Quick Diagnosis-Response to Events”, *2nd International Conference on Electrical, Computer, Mechanical and Mechatronics Engineering (ICE2015)*, 27-28 August 2015, Istanbul, Turkey.
- 2- **H. Golpîra**, and H. Bevrani “Application of GA Optimization for Automatic Generation Control in Realistic Interconnected Power Systems”, *IEEE ICMIC 2010*, pp. 30-34, 2010.
- 3- **H. Golpîra**, and H. Danyali “Reversible Blind Watermarking for Medical Images Based on Wavelet Histogram Shifting”, *IEEE ISSPIT 2009*, pp. 31-36, 2009 (Obtained from My B.Sc project).

4- **H. Golpîra**, H. Bevrani, and A. Hesami Naghshbandy “A new approach for small signal and voltage stability improvement in power system”, *20th Iranian Power System Conference*, 2012(In Persian).

5- H. Golpira, and **H. Golpîra** “Improvement of an Apple Sorting Machine Using PSNR Criterion”, *IEEE ICAMechS*, pp. 729-732, 2012.



RESEARCH EXPERIENCES

Assistant Professor, University of Kurdistan

Kurdistan, Iran
2016-Present

Power System Engineering Research Center (PSERC)

Madison, USA
May2014-March 2015

Moshanir Co.

Tehran, Iran
2011- 2015

Iran Khodro Maintenance & Operation Line Sub-branch

Kurdistan, Iran
2009-2011

- Pouinak Company



RESEARCH INTEREST

Power system

- Power system dynamics, stability and control in presence of intermittent sources
- Power system modeling & Simulation
- Power system operation

Mechatronic systems

- Application of signal processing in mechatronic systems

AWARDS AND HONORS

- 2015:**
- 3rd Ranked Award, 17th Kharazmi Youth Festival
 - Member of Iranian National Elite Foundation
 - Paper award, *2nd International Conference on Electrical, Computer, Mechanical and Mechatronics Engineering, Turkey, 2015*
 - Ranked 1st in Electrical Engineering, Graduate Studies, PhD, Tarbiat Modares University
- 2014:**
- Awarded honorary associate fellow, University of Wisconsin-Madison, WI, USA

- 2011:
 - Outstanding Research Assistant, I PSERC.
 - Awarded Ph.D. Scholarship from Ministry of Science, Research and Technology
 - The outstanding student in the Faculty of Engineering, University of Kurdistan.
- 2010
- 2009:
 - Ranked 1st in Electrical Engineering, Graduate Studies, M.Sc.
 - Member of elite students of Ministry of Science, Research and Technology
 - Ranked 1st in Electrical Engineering, Undergraduate Studies
 - Awarded M.Sc. Scholarship from Ministry of Science, Research and Technology



COMPUTER ENVIRONMENT FAMILITIES

Electrical Engineering
 PSCAD
 DigSilent
 Neplan
 Transient Security Assessment Tool
 PLECS
 WASP

Mathematical Packages
 MATLAB
 MAPLE
 Mathematica

Programming languages
 C++

Drawing, Design
 Mechanical
 AutoCAD

Microsoft Windows, Microsoft Office (Word, PowerPoint and Excel, Visio)



LANGUAGE SKILL

- **English:** Fluent both spoken and written
- **Persian:** Native
- **Kurdish:** Native



MEMBERSHIP

- Student Member of IEEE, since 2011



PROFESSIONAL SERVICES & ACTIVITIES

- Peer Review Service
- Reviewer of *IEEE Transactions on Power Systems*

- Reviewer of *IET Generation, Transmission and Distribution (IET)*
- Reviewer of *Energy Conversion & Management (Elsevier)*
- Reviewer of *Energy (Elsevier)*
- Reviewer of *International Journal of Electrical Power and Energy Systems (Elsevier)*
- Reviewer of *European Transactions on Electrical Power (Wiley)*
- Reviewer of *International Transaction on Electrical Energy (Wiley)*
- Reviewer of *Electric Power Components and Systems (Taylor & Francis)*
- Reviewer of *Ain Shams Engineering Journal (Elsevier)*
- Reviewer of *Turkish Journal of Electrical Engineering & Computer Sciences*
- Reviewer of *International Journal of Electrical and Electronics Engineering Research*
- Reviewer of *International Journal of Advanced Mechatronic Systems*
- Reviewer *International Journal of Electronics (Taylor & Francis)*
- Reviewer of *Imaging Science Journal (Taylor & Francis)*

Conference Committee.....

- Technical Program Committee (TPC) Member of 2013 International Conference on Advances in Industrial Control, Electronics and Computer Engineering (AICECE'13), Taiwan
- Technical Program Committee (TPC) Member of 2012 International Conference on Energy Research and Power Engineering (ERPE'12), Canada
- Program Committee (PC) Member of IEEE International Symposium on Signal Processing and Information Technology 2010 (ISSPIT 2010)
- Technical Program Committee (TPC) Member of IEEE International Symposium on Signal Processing and Information Technology 2010 (ISSPIT 2010)



ADDRESS1: Department of Electrical & Computer Engineering, University of Kurdistan, Sanandaj, Kurdistan, Iran.