

# CURRICULUM VITAE

**Faridoon Shabani**

**Professor**

## ADDRESS

P. O. Box 191676

Sacramento, CA 95819

Phone: (916)469-6406

Email: [shabani@shirazu.ac.ir](mailto:shabani@shirazu.ac.ir), and [shabaninia@yahoo.com](mailto:shabaninia@yahoo.com)

## PERSONAL

Date of Birth: 03/23/1956 (age 60)

Retired on Feb 1, 2017

Marital Status: Married

## EDUCATION

Ph.D. Electrical Engineering, New Mexico State University, Las Cruces, NM 1996 (GPA 4)

M.S. Electrical Engineering, San Jose State University, San Jose, CA, 1985

B.S. Electrical Engineering, University of Washington, Seattle, WA, 1983

## PROFESSIONAL EXPERIENCE

**Professor**, Department of Electrical Engineering, Shiraz University, Iran, 1998-Feb 2017

Teaching Courses: Signals and Systems, Linear Control Systems, Modern Control Systems, Digital Control Systems, Fuzzy Control Systems, Optimal State Estimation, Smart Grid and Control Lab

**Outstanding Research Award**, Shiraz University, December 2012

**Visiting Scholar Professor**, Department of Electrical Engineering, Sacramento State University, CA, June 2013 – Sep 2013

**Visiting Scholar Professor**, Department of Electrical Engineering, Sacramento State University, CA, Sep 2011 – Aug 2012

**Outstanding Research Award**, Shiraz University, December 2007

**President Shiraz Virtual University**, Shiraz, Iran, 2005-2009

Shiraz Virtual University is a private nonprofit organization governed by a Board of Directors representing business, education leaders and state government.

**NASA Faculty Fellowship Program**, Summer 2004

**Visiting Assistant Professor**, Department of Electrical Engineering, University of San Antonio, TX, August 2003 – May 2004

Courses Taught: Linear Control Systems, Digital Control Systems, Intelligent Control Systems, Electromechanical Systems and Network Theory (I, II)

**System Automation Consultant**, Tarh-Gostar Co., Isfahan, Iran, 2001-2002

Designed the overall structure of the automation and control system for Behpoudr factory and supervised its detailed design and implementation

**Lecturer**, Department of Electrical Engineering, University of Texas, El Paso, Texas, Fall 2000  
Courses Taught: Linear Control Systems, Signal and Systems, Network Theory (I, II) and Advanced Control Systems Lab

**Postdoctoral Researcher**, New Mexico State University, Department of Waste-management Education & Research Consortium (WERC), 1996-1997

**Lecturer**, Department of Electrical Engineering, University of Texas, El Paso, Texas, 1996-1997  
Courses Taught: Linear Control Systems, Signal and Systems, Electronic I

**Teaching Assistant**, Department of Electrical and Computer Engineering, New Mexico State University, Las Cruces, New Mexico 1992-1995 (Outstanding Teaching, 1993)  
Courses Taught: Linear Control Systems, Network Theory (I, II), Control Systems Lab and Logic Design Lab

**Instructor**, Department of Electrical Engineering, University of Guilan, Iran 1986-1991  
Courses Taught: Linear Control Systems, Instrumentation, Digital Control Systems, Network Theory I, Network Theory II, Control Systems Lab, Electrical Measurement

**Research Engineer**, Stellar System, San Jose, California, 1983-1985

## **TEACHING AND ADVISING ACTIVITIES**

### **Teaching Interests:**

Control and Power Systems (any courses), Soft Computing Methodologies (Fuzzy Logic, Neural Networks), Expert Systems, and Signal Processing

### **Courses Taught:**

Undergraduate Level: Network Theory I, Network Theory II, Linear Control Systems, Modern Control Systems, Industrial Control Systems, Instrumentation, Electromechanical Systems, Signal and Systems, Electronic I, Control Systems Lab, Electrical Measurement, Electronic Lab I, and Logic Design Lab

Supervised undergraduate student research projects and senior design projects

Graduate Level: Smart Grid, Digital Control Systems, Intelligent Control Systems, Expert Systems, Fuzzy-Neural Systems, Advanced Topics in Control, Advanced Control and Systems Lab  
Supervised and /or supervising more than **45 M.S. thesis and 5 PhD thesis**

### **Course/Laboratory Established:**

Intelligent Control Systems, Expert Systems, Fuzzy-Neural Systems, Advanced Topics in Control, Advanced Control Systems Lab, Control Systems Lab, and Logic Design Lab

## **Research Activities**

### **Major Areas:**

Intelligent Control Systems using Soft Computing Methodologies, Smart Grid  
Application of Fuzzy Logic and Neural Networks to State Estimation and Prediction (Control and Power Systems)

## **Grants:**

Received some grants on the following projects:

1. "Load Forecasting and management in Power Systems Using Fuzzy Logic," Sponsored by The Ministry of Higher Education, 2001
2. "Power Systems State Estimation Using Fuzzy Logic and Neural Networks," Sponsored by The Ministry of Higher Education, 2001
3. "The Design of control system of a LEO satellite Condition of revolving style by supervisory fuzzy and adaptive control in addition to uncertainties," 2005
4. "Application of Fieldbus in Power Systems," Sponsored by The Oil & Gas Co. 2005

## **SERVICE ACTIVITIES**

### **University**

E-learning Advisor Medical Shiraz University, Fars, Iran 2009-present

Shiraz University Representative on Fars Province ICT Council, Fars Province, Iran 2005-2015

Member of the IT and e-Learning committee of the Ministry of Science, Research, and Technology, Iran 2003-2005

Member, School of Engineering Graduate Committee, Shiraz University, Fars, Iran 2000-2001

Member, School of Engineering Research Committee, Shiraz University, Fars, Iran 1998-1999

Chair of EE Department, University of Guilan, Iran 1990-1991

Vice-Chancellor, University of Guilan, Iran 1986-1991

### **Professional Society Offices Held**

Membership Development Officer IEEE Iran Section, 2009

Member of the Organizing Committee of the Iranian Conference on Electrical Eng., May 2004

Chairman of 11<sup>th</sup> Iranian Conference on Electrical Engineering, Shiraz University, Iran, May 2003

Chairman of the First Eurasia Conference on Advances in Information & Communication Technology, Shiraz University, Iran, October 2002

Member of the Scientific Committee of the 9<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup> Iranian Conference on Electrical Engineering

## **PROFESSIONAL ACTIVITIES**

Technical Reviewer: IEEE Transaction, International Journal of Soft Computing, CRC Publisher, Iranian Journal of Science and Technology, Journal of School of Engineering Tehran University, and IASTED

Technical Consultant: National Iranian Oil Company, Iran Electronics Industry, Iranian Electrical Power Research Center

Given many Seminars on different Universities and Industries.

**Society Membership**: Senior Member IEEE, 1981-Present

## **PUBLICATIONS:**

## Books:

1. Smart Grid: The Basic Concepts, Winter 2015
2. Discrete-Time Control Systems, Spring 2011
3. E-learning Analysis and Design, Fall 2008
4. Fuzzy Control Using MATLAB, Spring 2007
5. Discrete-Time Control Problems Using MATLAB, Fall 2007
6. Applications in LABVIEW, Winter 2007

## Published Papers in Academic Journals (2012-2016)

- 1- Dadkhah Tehrani R, **Shabaninia F** (2016) "Two-Level Control of Photovoltaic Systems Using Extremum Seeking and Model Reference Adaptive Control " **IET Renewable Power Generation** :-
- 2- Khorshid R, **Shabaninia F**, Niknam T (2015) " A New Smart Approach for State Estimation of Distribution Grids Considering Renewable Energy Sources " **Elsevier\_Energy** 92:29-37
- 3- Nasiri Khalil Abad S, Ganjeh E, Zolriasatein A, **Shabaninia F**, Siadati M (2015) " predicting carbon nanotube diameter using artificial neural network along with characterization and field emission measurement " **Iranian Journal of Science and Technology (Sciences)** :-
- 4- Shoorabeh J, **Shabaninia F**, Karimi I (2015) " Industrial Boiler Modeling and Control Based on Adaptive Neuro Fuzzy Inference " **International Journal of Review in Life Sciences** 5:40-48
- 5- **Shabaninia F**, Azami A, Etedali N (2015) " Kalman Filtering for Fractional Order Systems with Multiple Time Delay Measurement " **Nonlinear Studies** 22:-
- 6- MODARRESI E, **Shabaninia F** (2015) " Fuzzy Automating Strategies of Emergency Operation for SGTR Accident in VVER 1000 Nuclear Reactor " **Universal Journal of Control and Automation** 3:15-27
- 7- Pourdehi Zeinabad S, Azami A, **Shabaninia F** (2015) " Fuzzy Kalman-type filter for interval fractional-order systems " **Neurocomputing** 159:44-49
- 8- Khorshid R, **Shabaninia F** (2015) " A new method for detection of fake data in measurements at smart grids state estimation " **IET Science, Measurement & Technology** 9:1-9
- 9- Khorshid R, **Shabaninia F** (2015) " State estimation in smart distribution grids considering renewable energy sources " **Journal of Intelligent and Fuzzy Systems** 28:2169-2178
- 10- Rakhshan M, Shasadeghi M, **Shabaninia F** (2015) " ANFIS Approach for Tracking Control of MEMS Triaxial Gyroscope " **Jurnal of Modeling & Simulation in Electrical & Electronics Engineering (MSEEE)** 5:35-40
- 11- Farrokhi M, **Shabaninia F**, Abbasi H (2015) "Hard Disk Drive Mechanism Vibration Damping Using Disturbance Observer " **Universal Journal of Control and Automation** 2:77-83
- 12- Zare S, **Shabaninia F** (2014) "Stabilization of a Chaotic System Using Fuzzy Parallel Distributed " **International Journal of System and Software Engineering** 2:8-15
- 13- **Shabaninia F**, Etedali N, Ghadamyari A (2014) "Type-2 Fuzzy Sliding Mode Control for Deployment of a Robotic TeamX " **NONLINEAR STUDIES** 21:1-10
- 14- Safari S, **Shabaninia F**, Simon D (2014) "Multirate multisensor data fusion for linear systems using Kalman filters and

15- **Shabaninia F**, Kazemi M (2014) "Designing Power Supply using FUZZY controllers(X) " **ARTIFICIAL INTELLIGENCE AND APPLICATIONS** 1:44-54

16- Monajati M, **Shabaninia F** (2014) "The Validity Value of Electrical Restitution Curve in Prediction of Ventricular Fibrillation Induction Using ANFIS(X) " **International Journal of Engineering Innovation & Research** 3:178-184

17- **Shabaninia F**, Molazem hosseini M, Abbasi H (2014) "Voltage-MPPT Controller Design of Photovoltaic Array System Using Fuzzy Logic Controller X " **Advances in Energy and Power** 2:1-6

18- **Shabaninia F**, Mavaddat M (2014) "Identification and Control for a Single-Axis Nanopositioner Stage X " **Universal Journal of Mechanical Engineering** 2:132-137

19- **Shabaninia F**, Pouyanfar S, Abbasi H (2014) "Design and Analysis of Neuro Fuzzy Logic PD Controller for PWM-Based Switching Converter X " **Universal Journal of Control and Automation** 2:58-64

20- Jamshidnia A, **Shabaninia F** (2014) "Intelligent Control for Gas Collector Pressure of Coke Oven X " **International Journal of Engineering and Technology Research** 2:1-14

21- **Shabaninia F** (2014) "Auto-adjusting Wing Mirrors Angles System Based on Fuzzy Logic Control X " **Universal Journal of Control and Automation** 2:42-49

22- **Shabaninia F** (2014) "Z-mouse : A New Tool in Fuzzy Logic Theory X " **World Journal of Computer Application and Technology** 2:22-27

23- **Shabaninia F**, Nematollahi P (2013) "Propound Solutions for Increase Fault Tolerance in Web Services Composition X " **International Journal of System and Software Engineering** 1:17-22

24- Tadayoninejad A, **Shabaninia F** (2013) "Using Nonlinear Kalman Filter to Estimate the State of Nonlinear Semi-Active Suspension System X " **International Journal of Knowledge Based Computer System** 1:1-7

25- Mola M, **Shabaninia F** (2013) "Design and Simulation of Type II Fuzzy Logic Controller for Capturing Maximum Wind Energy " **International Journal of Ambient Energy** 25:7-8

26- **Shabaninia F**, Etedali N (2013) "Fuzzy adaptive output of a class of uncertain time delay chaotic system " **Nonlinear Studies** 20:85-95

27- Mohammadzadeh chemazkety H, **Shabaninia F**, Farokhzad M (2012) "Impact of Information Technology to Improve Iranian Organizational Performance " **ARPN Journal of Systems and Software** 2:236-240

28- Naghavi S, Azami A, **Shabaninia F** (2012) "State Estimation over Customized Wireless Network " **Wireless Engineering and Technology** 12:221-228

29- **Shabaninia F** (2012) "Two-dimensional based method in history matching problem " **Journal of Petroleum and Gas Engineering** 6:81-91

30- Abrazeh S, **Shabaninia F** (2012) "Using iterative learning algorithm and ANFIS training to compare type-1, type-2, fuzzy controller " **Nonlinear Studies** 19:627-636

31- Monajati M, Abbasi H, **Shabaninia F**, Shamekhi S (2012) "Emotions States Recognition Based on Physiological Parameters by Employing of Fuzzy-Adaptive Resonance Theory " **International Journal of Intelligence Science** 2:166-176

32- **Shabaninia F**, Ranjbar sahraii B, Ghadamyari A (2012) "An Adaptive H<sub>∞</sub> Based Formation Control for Multirobot Systems " **ISRN Robotics** 4:1-12

- 33- Faridnia N, Seyedyazdi M, **Shabaninia F** (2012) "Voltage Control of a 12/8 Pole Switched Reluctance Generator Using Fuzzy Logic " **International Journal of Modern Nonlinear Theory and Application** 3:107-112
- 34- **Shabaninia F**, Jafari K (2012) "Using LQG/LTR Optimal Control Method to Improve Stability and Performance of Industrial Gas Turbine System " **ISRN Electronics** 4:1-8
- 35- Ranjbar sahraii B, **Shabaninia F**, Nemati A, Stan S (2012) "A Novel Robust Decentralized Adaptive Fuzzy Control for Swarm Formation of Multiagent Systems " **IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS** 59:3124-3134
- 36- Roopaei M, **Shabaninia F**, Karimaghaee P (2008) "Iterative Sliding Mode Control " **Nonlinear analysis** 2:256-271

## Papers in Conference Proceedings(2012-2015)

- 1-**Shabaninia F**, Seyedyazdi M, Vaziri M, Zarghami M, Vadhva S " State Estimation of a Distribution System Using WLS and EKF Techniques " **IEEE IRI 2015** (2015)
- 2-**Shabaninia F**, Rakhshan M " An Automotive Cruise Control Using Fuzzy Control Optimized via Extended Kalman Filter " **World Congress on Industrial Automation** (2015)
- 3-**Shabaninia F**, Vaziri M, Amini M, Zarghami M, Vadhva S " Kalman-Filter Algorithm and PMUs for State Estimation of Distribution Networks " **IEEE IRI 2014** (2014)
- 4-Kazerooni M, **Shabaninia F**, Vaziri M, Vadhva S "Distributed Ensemble Kalman Filter for Multisensor Application " **IEEE\_IRI2013** (2013)
- 5-Kazerooni M, **Shabaninia F**, Vadhva S, Vaziri M "Federated Ensemble Kalman Filter in No Reset Mode Design " **IEEE\_IRI2013** (2013)
- 6-**Shabaninia F**, Mohagheghi A, Salimifard M "Fuzzy Logic & Fuzzy Sliding Mode Tracking Control of Non-holonomic Unicycle Wheeled Mobile Robots " **21st Iranian Conference on Electrical Engineering (ICEE2013)** (2013)
- 7-**Shabaninia F**, Noroozi N "Stochastic Robust Nonlinear Control " **21st Iranian Conference on Electrical Engineering (ICEE2013)** (2013)
- 8-Mohammadi sooran D, Abbasi H, **Shabaninia F** "Comparative study between Tank's Water Level Control using PID and Fuzzy Logic Controller " **IEEE - SOFA-2012** (2012)
- 9-Khorshid R, **Shabaninia F**, Vaziri , Vadhva "Kalman-Particle filter used for Particle Swarm Optimization of Economic Dispatch Problem " **IEEE-GHTC** (2012)
- 10-Jamshidnia A, Abrazeh S, **Shabaninia F** "Intelligent Control For Gas Collector Pressure Of Coke Oven " **the 6th international conference on fuzzy information and engineering** (2012)
- 11-Yavari B, Abbasi H, **Shabaninia F** "Design an Optimal Fuzzy PID Controller for Herbal Machine Harvester with Gripping-Belt Speed " **IEEE - SOFA-2012** (2012)
- 12-Paykari N, **Shabaninia F**, Abbasi H "Design of MIMO Mamdani Fuzzy Logic Controllers For Wall Following Mobile Robot " **IEEE - SOFA-2012** (2012)
- 13-Taslimian M, **Shabaninia F**, Vaziri , Vadhva "Fuzzy Type-2 Electrode Position Controls for an Electric Arc Furnace " **IEEE\_IRI\_2012** (2012)

- 14-**Shabaninia F**, Sadeghi H, Vaziri , Vadhva "PMU-Based Recursive State Estimation and its Performance with Neural Network " **IEEE\_PES\_2012** (2012)
- 15-Sabetghadam B, **Shabaninia F**, Vaziri , Vadhva "Type-2 Fuzzy Multiagent Traffic Signal Control " **IEEE IRI 2012** (2012)
- 16-**Shabaninia F**, Vaziri , Vadhva S, Vaziri J "A Novel State Estimation Formulation for Distribution Grids with Renewable Energy Sources " **IEEE\_PES\_2012** (2012)
- 17-**Shabaninia F**, Sadeghi H "An approach for optimal pmu location for power systems state estimation " **Third conference on optimal** (2012)
- 18-Goli M, Moeni aghtaei A, **Shabaninia F** "Interval Type-II Fuzzy Logic Controller for a Petroleum Flash Separation Process " **First International Conference of Oil, Gas, Petrochemical and Power Plant** (2012)
- 19-Eydani asl M, Abbasi H, **Shabaninia F** "Application of Adaptive Fuzzy Control in the Variable Speed Wind Turbines " **AICI2012** (2012)
- 20-Mirzaei M, **Shabaninia F**, Mohammadi H "Applying Adaptive Fuzzy Sliding Mode Control to an Underactuated System " **ICCIA 2012** (2012)
- 21-Mohammadi H, **Shabaninia F**, Mirzaei M "Indirect Adaptive Fuzzy Sliding Mode Control for an Electro-hydraulic Servo Mechanism " **ICICA2012** (2012)
- 22-Ghadamyari A, **Shabaninia F** "Sliding Mode Control of Multi-Robot Deployment An Adaptive Interval Type-2 Fuzzy Approach " **ICCIA 2012** (2012)
- 23-Aminilari V, **Shabaninia F** "Error correction of a coriolis mass flow meter in two-phase flow measurement using Neuro-Fuzzy " **AISP 2012** (2012)
- 24-Jeddi S, Abbasi H, **Shabaninia F** "Load Frequency Control of Two Area Interconnected Power System (Diesel Generator and Solar PV) with PI and FGSPIC Controller " **AISP 2012** (2012)

## **Journals and Conferences (1995-2012)**

1. "An Adaptive  $H_\infty$ -Based Formation Control for Multirobot Systems" *ISRN Robotics Journal*, Vol 2013, pages 1-12, Nov 2012
2. " Intelligent Control For Gas Collector Pressure Of Coke Oven" *Proceeding of 6<sup>th</sup> International Conference on Fuzzy Information and Engineering*, Oct 2012-11-27
3. "Emotions States Recognition Based on Physiological Parameters by Employing of Fuzzy-Adaptive Resonance Theory" *International Journal of Intelligence Science*, Vol 2012, No 2, pages 166-176
4. "Using iterative learning algorithm and ANFIS training to compare type-1, type-2, fuzzy controller" *Nonlinear Studies* ,Vol. 19, No. 4, pp. 1-11, 2012
5. "Kalman-Particle filter used for Particle Swarm Optimization of Economic Dispatch Problem" *Proceeding of 2012 IEEE Global Humanitarian Technology Conference*, Pages 220-223, Oct 2012

6. "Two-dimensional based method in history matching problem" Journal of Petroleum and Gas Engineering Vol. 3(5), pp. 81-91, October 2012
7. "State Estimation over Customized Wireless Network" Wireless Engineering and Technology, 2012, 3, 221-228
1. "A Novel Robust Decentralized Adaptive Fuzzy Control for Swarm Formation of Multi-Agent Systems" IEEE Transactions on Industrial Electronics, Vol 59, No 8, pages 3124-3134, Aug 2012
2. "Recent trends in information reuse and integration" Chapter Book, Springer, 43-77, 2012
3. "Using LQG/LTR Optimal Control Method to Improve Stability and Performance of Industrial Gas Turbine System" International Scholarly Research Network- ISRN Electronics, Vol 2012, pages 1-8, Aug 2012
4. "A Novel State Estimation Formulation for Distribution Grids with Renewable Energy Sources" IEEE Proceeding, IEEE-PES-2012, Aug 2012
5. " PMU-Based Recursive State Estimation and its Performance with Neural Network" IEEE Proceeding, IEEE-PES-2012, Aug 2012
6. "Fuzzy Type2- Electrode Position Controls for an Electric Arc Furnace " IEEE Proceeding, IEEE-IRI-2012, Aug 2012
7. "Type-2 Fuzzy Multiagent Traffic Signal Control" Proceeding, IEEE-IRI-2012, Aug 2012
8. " Design an Optimal Fuzzy PID Controller for Herbal Machine Harvester with Gripping-Belt Speed" IEEE Proceeding – IEEE-SOFA-2012
9. "Comparative Study between Tank's Water Level Control Using PID and Fuzzy Logic Controller" IEEE Proceeding – IEEE-SOFA-2012
10. "Design of MIMO Mamdani Fuzzy Logic Controllers For Wall Following Mobile Robot" IEEE Proceeding – IEEE-SOFA-2012
11. " An approach for optimal PMU location for power systems state estimation" Iran, Proceeding, Ahwaz, 2012
12. " Interval Type-II Fuzzy Logic Controller for a Petroleum Flash Separation Process" First International Conference of Oil, Gas, Petrochemical and Power Plant, Proceeding, Iran, Tehran, 2012
13. " Application of Adaptive Fuzzy Control in the Variable Speed Wind Turbines" Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 7530 LNAI , pp. 349-356, China, 2012
14. " Applying Adaptive Fuzzy Sliding Mode Control to an Underactuated System" ICCIA 2012 Proceeding, Iran Shiraz, 2012

15. "Indirect Adaptive Fuzzy Sliding Mode Control for an Electro-hydraulic Servo Mechanism" ICCIA 2012 Proceeding, Iran Shiraz, 2012
16. Sliding Mode Control of Multi-Robot Deployment An Adaptive Interval Type-2 Fuzzy Approach" ICCIA 2012 Proceeding, Iran Shiraz, 2012
17. "Error correction of a coriolis mass flow meter in two-phase flow measurement using Neuro-Fuzzy" AISP2012, Proceeding, Iran Shiraz, 2012
18. "Load Frequency Control of Two Area Interconnected Power System (Diesel Generator and Solar PV) with PI and FGSPIC Controller" AISP2012, Proceeding, Iran Shiraz, 2012
19. "A Resilient  $H^\infty$  Control Design for Swarm Formation Control of Multi-Agent systems: A Decentralized Adaptive Fuzzy Approach," 3<sup>th</sup> International Symposium on Resilient on Control Systems, Idaho Falls, ID, Aug 10-12, 2010
20. "Indirect Adaptive Interval Type-2 Fuzzy Output Feedback Controller for MIMO Nonlinear Systems: A results Approach," 3<sup>th</sup> International Symposium on Resilient on Control Systems, Idaho Falls, ID, Aug 10-12, 2010
21. "Fast and Totally Nonlinear Set Membership Filtering; Application to Control a 5-DOF Robot Manipulator," 3<sup>th</sup> International Symposium on Resilient on Control Systems, Idaho Falls, ID, Aug 10-12, 2010
22. "Adaptive Fuzzy Control of a Class of Nonlinear Time-delay Systems with Input Nonlinearity," IEEE Proceeding of International Conference on Information Reuse and Integration (IRI'10), Las Vegas, NV, USA, Aug 4-6, 2010
23. "Fuzzy Sliding Mode Control Algorithm and Extended Kalman Filter for Nonlinear Chemical Reactors," IEEE Proceeding of International Conference on Information Reuse and Integration (IRI'10), Las Vegas, NV, USA, Aug 4-6, 2010
24. "Dynamic Fuzzy Neural Network," 10<sup>th</sup> Iranian Conference on Fuzzy Systems, Tehran, Iran, July 2010
25. "Adaptive Fuzzy Control of Ship by Using  $H^\infty$  Criterion in the Presence of State Observer," 10<sup>th</sup> Iranian Conference on Fuzzy Systems, Tehran, Iran, July 2010
26. "Design of Adaptive Neuro-Fuzzy Controller Based on  $H^\infty$  Criterion for a Class of Nonlinear Uncertain Systems," 10<sup>th</sup> Iranian Conference on Fuzzy Systems, Tehran, Iran, July 2010
27. "Overview on Type-2 TSK Fuzzy Systems," 4<sup>th</sup> Iranian Conference on Applied Mathematics, Zahedan, Iran, March 2010
28. "Tracking of Maximum Power point for Photovoltaic Systems," Proceeding of Electrical and Electronic Engineering Journal, Shiraz, Iran, Fall 2009

29. "Intelligent Vibration Control of Structures against Earthquakes using Hybrid Damper," 2009 International Conference on Mechanical and Electrical Technology (ICMET 2009), Beijing, China, Aug 2009
30. "E-learning Strategy," Proceeding of Iranian Journal of Engineering Education, Tehran, Iran, May 2009
31. "Optimization and Control of the Performance of PEM-Fuel Cell by Fuzzy Logic Approach," International Journal of Computational Intelligence Research and Application, Vol. 2, No2. Dec 2008
32. "State Estimation in Power System with Fuzzy Approach," International Journal of Computational Intelligence Research and Application, Vol. 2, No2. Dec 2008
33. "Compressor's Fuzzy Logic Controller Design in Proton Membrane Fuel Cell Generator," Proceeding of 34th Annual Conference of IEEE Industrial Electronics Society, Orlando, Florida, USA, Nov 2008
34. "A Comparative Study of elearning Skills and Time Management of Student in Virtual and non Virtual Shiraz Universities" Information Technology, Present, Future, Mashhad, Iran, Nov 2008
35. "Introducing Effective Parameters in Tele-operation Systems Assessment," Iranian Journal of Engineering Education, Vol. 9, No36. Winter 2008
36. "Iterative Sliding Mode Control," Journal of Nonlinear Analysis: Hybrid Systems and Applications, June 2008
37. "Design of Fuzzy Controller for Backing-up a Four Wheels Autonomous Robot," Proceeding of TICME 2007, Tehran, Iran, Dec 2007
38. "Post-training on RBF Neural Networks," Journal of Nonlinear Analysis: Hybrid Systems and Applications, Dec 2007
39. "State Estimation in Power System with Fuzzy Approach," Proceeding of International Conference on Control, Automation and Systems, Seoul, Korea, Oct 2007
40. "Identification of Oil Cycle in the Case of Parabolic Trough Solar Power Plant," Proceeding of IEEE North American Power Symposium (NAPS 2007), Las Cruces, USA, Sep 2007
41. "PM Stepper Motor Control-Universal SMC," Proceeding of IEEE North American Power Symposium (NAPS 2007), Las Cruces, USA, Sep 2007
42. "The Crucial Role of e-Learning in the Cognitive Society," Proceeding of 33rd Annual Conference of the International Association for Education Assessment, Qafqaz, Azerbaijan, Sep 2007
43. "Two-Time Scale Fuzzy Logic Controller and Observer Design for Trajectory Tracking of Two Cooperating Robot Manipulators Handling a Flexible Beam," Proceeding of IEEE EUROCON 2007, Sep 2007

44. "Stabilization of Autonomous Bicycle by an Intelligent Controller," Proceeding of First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran Aug 2007
45. "Chattering Elimination with Fuzzy Sliding Mode Control in Parallel Robots," Proceeding of First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran Aug 2007
46. "Automatic Tuning Fuzzy Controller by Using Genetic Algorithm," Proceeding of First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran Aug 2007
47. "Autoclave Reactor Control to Produce Polyethylene using Fuzzy with DCS method," Proceeding of First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran Aug 2007
48. "Designing Multipurpose Sun Tracking System using Fuzzy Control," First Iranian Conference on Optimization of Energy Consumption, Mashhad, Iran, July 2007
49. "Fuzzy, PID and Neural Network Control of an Experimental System of Balancing a Ball on a Beam in a Desired Position," Proceeding of 16<sup>th</sup> International Workshop on Robotics in Alpe-Adria Region (RAAD 2007), Ljubljana, Slovenia, June 2007
50. "Fuzzy Logic Yaw and roll Control of an Autonomous Underwater Vehicle," Proceeding of Conference of Underwater Science & Technology (FCOUST), Isfahan, Iran, May 2007
51. "Modeling Internet Delay Dynamics Using System Identification," Proceeding of ICMSAO 2007, Dubai, UAE, April 2007
52. "IT Applications in Security of Industrial Control Systems," Iranian Journal of Engineering Education, Vol 8. No32. Winter 2007
53. "Modeling and Simulation of Shiraz Solar Power Plant Using System Identification," Proceeding of 21<sup>th</sup> International Power System Conference (PSC 2006), Tehran, Iran, 2006
54. "Distance Learning for Power Professionals," Iranian Journal of Engineering Education, Vol 8. No31. Fall 2006
55. "The Role of the Internet in the Educational and Research Engineering Laboratories of Engineering Faculties," Iranian Journal of Engineering Education, Vol 8. No30. Summer 2006
56. "A Virtual Network Laboratory for Instruction and Research," Iranian Journal of Engineering Education, Vol 8. No29. Spring 2006
57. "A Control System for a single-spin LEO Satellite Condition of Revolving Style by Supervisory Fuzzy and Adaptive Control in Addition to Uncertainties," Journal of Intelligent and Fuzzy Systems, 2006
58. "Robust Function Approximation by RBF Neural Networks with Adaptive Structure," Proceeding of 14<sup>th</sup> Iranian Conference on Electrical Engineering, Tehran, Iran, May 2006
59. "Fuzzy Logic Method to Autonomous Car Parking," Proceeding of 6<sup>th</sup> Iranian Conference on Fuzzy system, Shiraz, Iran, May 2006

60. "A New Fuzzy Obstacle Avoidance Method Based on Artificial Potential Field for Mobile Robots" IEEE Proceeding of International Conference on Computer & Communication Engineering (ICCCE'06), Malaysia, 9-11 May 2006
61. "New Enhanced Methods for Radial Basis Function Neural Networks in Function Approximation," IEEE Proceeding of Intelligent International Conference on Hybrid (IICH 2005), Brazil, Janeiro, Nov 6-9, 2005
62. "Scheduling of Sequence-Dependant Jobs on Parallel Multiprocessor Systems Using a Branch and Bound-Ba," IEEE Proceeding of International Conference on Emerging Technologies (ICET 2005), Pakistan, Islamabad, Sept 17-18, 2005
63. "New Training Methods for RBF Neural Networks," IEEE Proceeding, China Aug 2005
64. "Petri Net-Based Modeling and Simulation of a Hybrid Manufacturing System" IEEE Proceeding of International Conference on Emerging Technologies (ICET 2005), Pakistan, Islamabad, Sept 17-18, 2005
65. "A Control System for single-spin LEO Satellite Condition of Revolving Style by Supervisory Fuzzy and Adaptive Control in Addition to Uncertainties," IEEE Proceeding of International Conference on Information Reuse and Integration (IRI 2005), Las Vegas, NV, USA, Aug 15-17, 2005
66. "Branch and Bound-Based Scheduling of Tasks on Unrelated Parallel Multiprocessor Systems Using Petri Nets," 9th WSEAS Multi-Conference on Circuits, Systems, Communications and Computers, Vouliagmeni, Athens, Greece, July 11-16, 2005
67. "Modeling and Simulation of Hybrid Systems Using a Special Class of Timed Petri Nets" 9th WSEAS Multi-Conference on Circuits, Systems, Communications and Computers, Vouliagmeni, Athens, Greece, July 11-16, 2005
68. "Hybrid Modeling and Simulation of a Robotic Manufacturing System Using Timed Petri Nets," WSEAS TRANSACTION ON SYSTEMS JURNAL Issue 5, Vol.4, May 2005
69. "Petri Net Scheduling of Parallel Manufacturing Systems Based on a New Branch and Bound Algorithm" WSEAS TRANSACTION ON SYSTEMS JURNAL Issue 5, Vol. 4, May 2005
70. "Virtual Learning, New Methods and Improving the Education," Iranian Journal of Engineering Education, Vol 7. No27. Fall 2005
71. "Designing ADC by Means of Soft Computing," AutoSoft – Intelligent Automation and Soft Computing Journal, Vol. 11, No. X, pp. 1-10, July 2005
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