Biography (CV) and Publications

Hassan Bevrani

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Profile

Qualifications, Career History and Biography, Professional Memberships, and Awards

Qualifications

1991 BEg	**Electrical Engineering-Electronic** (Ferdowsi University, Mashhad, IRAN)
1997 MSc (Hon)	**Electrical Engineering-Control** (K. N. Toosi university of technology, Tehran, IRAN)
2002	**Intensive Japanese Language Program (IJLP),** (Int. Student Center-ISC, Osaka University, Osaka, JAPAN)
2004 PhD	**Electrical Engineering** (Osaka University, Osaka, JAPAN)

Career History and Biography

1991-1993	**Research Eng.** in Lawizan Electronic and Communication Research Center, Tehran, Iran
1996-1998	**Chair** in Technical Committee of Area Operating Center (WAOC), West Regional Electric Co., Kermanshah, Iran
1998-2001	**Chair** in Research and Standard Office, West Regional Electric Co., Kermanshah, Iran
2001-2002	**Lecturer** at University of Kurdistan, Sanandaj, Iran
2004-2006	**Post-Doctoral Fellow** (JSPS PostDoc) and Lecturer at Kumamoto University, Kumamoto, Japan
2007-2008	**Senior Research Fellow** at Queensland University of Technology, Brisbane, Australia
2009-2010	**Professor** at Kumamoto University, Kumamoto, Japan
2011/7-2011/9	**Visiting Professor** at Kyushu Institute of Technology, Kitakyushu, Japan
2012/8-2012/9	**Visiting Professor** at Osaka University, Osaka, Japan
2013/7-2013/8	**Visiting Professor** at Kyushu Institute of Technology, Kitakyushu, Japan
2014/3-2014/4	**Visiting Professor** at Ecole Centrale de Lille, Lille, France
2014/5-...	**Professor** at University of Kurdistan, Kurdistan, Iran

2015/8-2015/9	**Visiting Professor** at Osaka University, Osaka, Japan
2015/12-2016/1	**Visiting Professor** at Ecole Centrale de Lille, Lille, France
2016/7-2016/9	**Visiting Professor** at Osaka University, Osaka, Japan
2016/9-...	**Vice Chancellor for Research** at University of Kurdistan, Kurdistan, Iran

Professional and Group Associations

IEEE Senior Member, IET Member, IEEJ Member, IAEEE Member

Professional Recognition and Awards

- Awarded M. Sc Scholarship from Power Ministry of Iran, 1994.
- Awarded PhD Scholarship from Japan's Ministry of Education and Technology (Monbukagakusho), 2002.
- Awarded Postdoctoral fellowship from Japan Society for the Promotion of Science (JSPS), 2004.
- Shortening the period of PhD study to 2 years (2002-2004), as an award from Dept. of Electrical, Electronics and Information Eng., Osaka University, Japan.
- Awarded Research fellowship from Queensland University of Technology, Australia, 2007.
- Awarded professor position, Kumamoto University, Japan, 2009.
- Awarded Best Professor in Teaching, Dept. of Electrical Eng., University of Kurdistan, Iran (2006, 2012-14).
- Awarded Best Faculty Professor in Research, Faculty of Engineering, University of Kurdistan, Iran (2008, 2011, 2014).
- Awarded Visiting Professorship in abroad universities (2011-2016).

Research Areas

Power System Stability and Control: Frequency Control, Automatic Generation Control, Wide Area Measurement Systems, Oscillation dynamics Analysis, Online Tuning, Microgrid Control

Artificial Intelligence, Robust, and Nonlinear Control: Theory and Applications

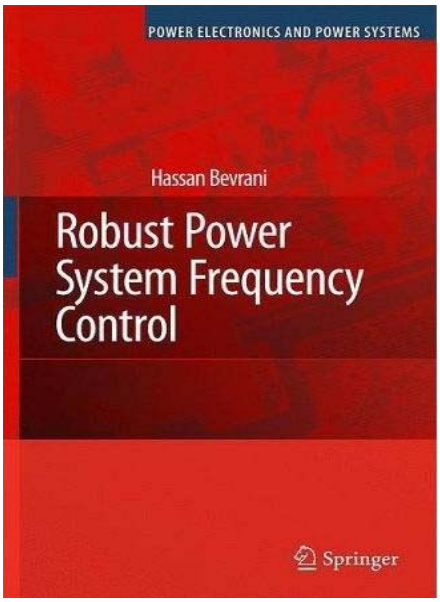
Power Electronic Systems: Modeling, Control and Stability Analysis

Teaching Areas

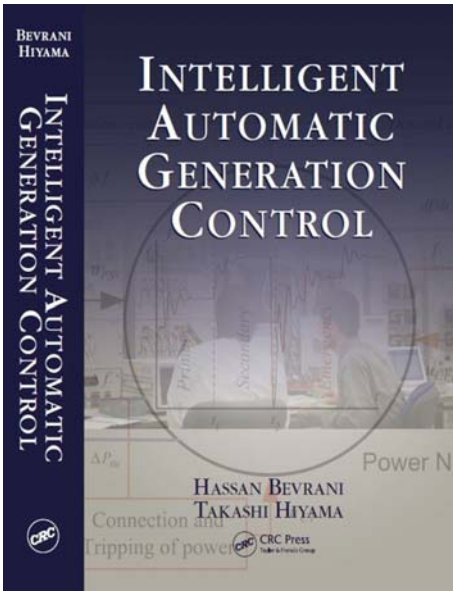
- **Linear Control Systems**, **Modern Control Systems**, **Robust Control**, **Power Electronics**
- **Microelectronic Circuits**, **Electric Circuits**, **Pulse Techniques**, **Induction Motors**
- **Motion Control**, **Robust Control Theory**, **Robust Control Application in Power systems**
- **Fuzzy Systems and Control**, **Automatic Generation Control**
- **Electric energy and Environment**, **Advanced Power System Frontier I and II**
- **Intelligent Control in Power Systems**, **Artificial Neural networks**, **Smart Grids**
- **Micro Grids**, **English for Electrical Engineers**, **Power System Dynamics and Control**

Publications

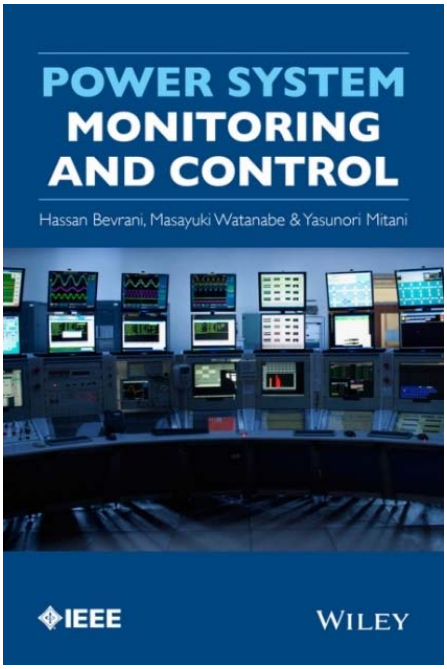
Books



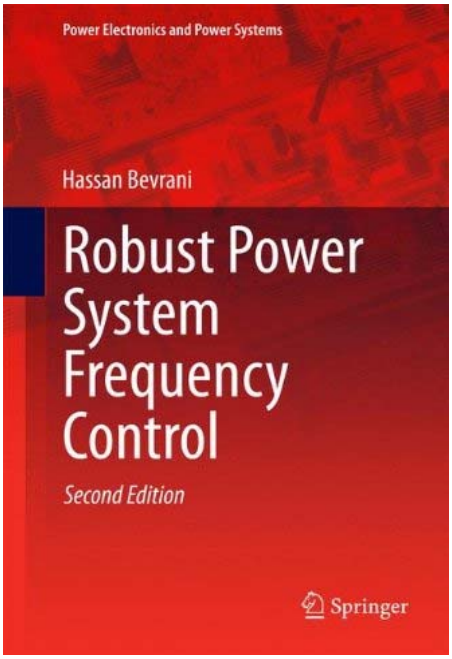
[1] Bevrani, H (March 2009) ***Robust Power System Frequency Control***, Springer, New York, USA.



[2] Bevrani H, Hiyama T (April 2011) ***Intelligent Automatic Generation Control***, CRC Press (Taylor & Francis Group), New York, USA.

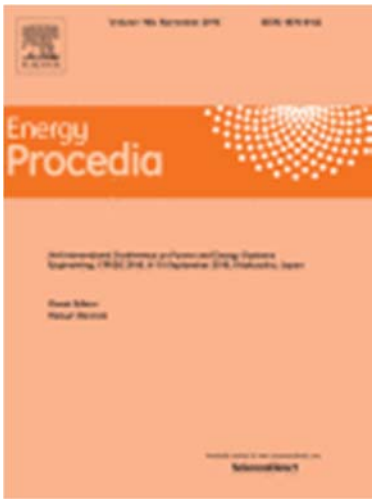


[3] Bevrani H, Watanabe M, Mitani Y (July 2014) ***Power System Monitoring and Control***, IEEE-Wiley Press, New York, USA.



[4] Bevrani, H (July 2014) ***Robust Power System Frequency Control***, 2nd edition, Springer, Switzerland.

[5] Bevrani H, Francois B, Ise T (Expected May 2017) ***Microgrid Dynamics and Control*,** In Press, IEEE-Wiley Press, New York, USA.

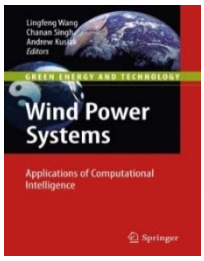


[6] Bevrani H (Editor, Nov. 2016) ***Energy Procedia*,** Vol. 100, Pages: 560, Elsevier, UOK.

Book Chapters

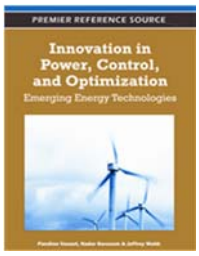
[1] Bevrani H, Tikdari A. G (2010) **An ANN-based Power System Emergency Control Scheme in the Presence of High Wind Power Penetration**. in *Wind Power Systems: Applications of Computational Intelligence*, pp. 215-254, L. F. Wang, C. Singh, and A. Kusiak (Eds), Springer Book Series on Green Energy and Technology, Springer-Verlag, Heidelberg.

[2] Bevrani H, Daneshfar F, Daneshmand P. R (2010) **Intelligent Power System Emergency Regulation Concerning the Integration of Wind Power Units**. in *Wind Power Systems: Applications of Computational Intelligence*, pp. 407-437, L. F. Wang, C. Singh, and A. Kusiak (Eds), Springer Book Series on Green Energy and Technology, Springer-Verlag, Heidelberg.

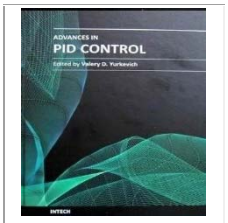


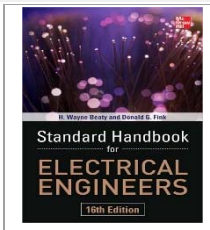
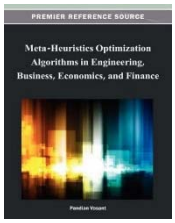
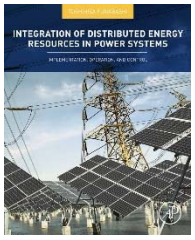
[3] Saleh M. and **Bevrani H** (2011) **Dynamic analysis and stability improvement concerning the integration of wind Farms: Kurdistan electric network case study**. In *Innovation in Power, Control and Optimization: Emerging Energy Technologies*. P. Vasant, N. Barsoum and J. Webb (Eds), Chapter 6, pp.198-219, IGI Global; 2011.

[4] Tikdari A. G. **Bevrani H**, and Ledwich G (2011) **A descriptive Approach for Power System Stability and Security Assessment**. In *Innovation in Power, Control and Optimization: Emerging Energy Technologies*. P. Vasant, N. Barsoum and J. Webb (Eds), Chapter 10, pp. 293-314, IGI Global; August 2011.



[5] Bevrani H, and Bevrani H (2011) **PID tuning: robust and intelligent multi-objective approaches**. In Advances in *PID Control*. Valery D. Yurkevich (Ed), Chapter 9, pp. 167-186, Intech Publisher.



[6] **Bevrani H** (2012) **Automatic generation control**. In *Standard Handbook for Electrical engineers*, 16th Edition. H. Wayne Beaty (Ed), Section 16.8, pp. 139-160, McGraw-Hill, USA. **[7]** **Bevrani H** (2012) **Microgrid controls**. In *Standard handbook for Electrical engineers*, 16th Edition. H. Wayne Beaty (Ed), Section 16.9, pp. 160-176, McGraw-Hill, USA.	
[8] **Bevrani H**, Habibi F, Shokoohi S (2013) **ANN-based self-tuning frequency control design for an isolated microgrid**. *Meta-Heuristics Optimization Algorithms in Engineering, Business, Economics, and Finance*. P. Vasant (Ed), Chapter 12, pp. 357-385, IGI Global, USA.	
[9] Babahajyai P, Habibi F, **Bevrani H** (2014) **An on-line PSO-based fuzzy logic tuning approach: Microgrid frequency control case study**. *Handbook of Research on Novel Soft Computing Intelligent Algorithms: theory and Practical Applications*. P. Vasant (Ed), Chapter 20, pp. 589-616, IGI Global, USA.	
[10] Ise T, **Bevrani H** (2016) **Virtual Synchronous Generators and Their applications in Microgrids**. *Integration of Distributed Energy resources in Power Systems*. T. Funabashi (Ed.), Chapter 12, pp. 282-294, Elsevier, UK.	
[11] Liu Q, **Bevrani H**, Mitani Y (Expected 2017) **An enhanced WAMS-based power system oscillation analysis approach**. *Dynamic Vulnerability Assessment and Intelligent Control for Sustainable Power Systems*. J. R. Torres, F. G. Longatt (Eds), Chapter 7, IEEE-Wiley, USA.	
[12] R. Mirzaei, **Bevrani H** (Expected 2017) **Soft Switched boost Power Converter Control in DC Microgrids**. *Stability, Power Quality and Reliability of Future Electrical Grids*. T. Funabashi (Ed.), CRC, USA.	

Papers, Keynote / invited speeches, and Technical reports

2016

[230] Bevrani H (2016) Microgrid Control: A Solution for Penetration of Renewable Power. Keynote speech, *IEEE Int. Conf. on Power and Renewable Energy-ICPRE 2016,* Shanghai, China, Oct. 21-23, 2016.

[229] Bevrani H, Feizi M.R, Ataee S (2016) Robust frequency control in an islanded microgrid: Hinf and Mu synthesis approaches. *IEEE Transaction on Smart Grids*, vol.7, no. 2, pp. 706-717, March 2016.

[228] Bevrani H (2016) Electric Microgrids, Invited Speech, West Regional Electric Co.-WREC, Kermanshah, Iran, Nov. 22, 2016.

[227] Hirase Y, Abe K, Sakimoto K, Sugimoto K, Bevrani H, Ise T (2016) Microgrid stability enhancement using virtual synchronous generator: an analytic approach with analytic evaluation. Submitted to the *IEEE Trans. Smart Grid*.

[226] Bevrani H (2016) Power Grids Control: A Survey on Research Background, Invited Speech, Shanghai Jiao Tong University, Shanghai, China, Oct. 26, 2016.

[225] Qing L, Mitani Y, Bevrani H (2016) An Enhanced WAMS-based Power System Oscillation Analysis Approach. Keynote speech, *Int. Conf. on Electrical Engineering-ICEE 2016,* Okinawa, Japan, July 3-7, 2016.

[224] Ataee S, Bahramara S, Feizi M.R, Bevrani H (2016) Optimal design and planning of hybrid microgrid. *2nd National Conf. of Technology, Energy and Data on Electrical and Computer Eng.*, Awarded as the best paper, Kermanshah, Iran, May 2016.

[223] Bevrani H (2016) Study on design and implementation of smart microgrids in west electric industry of Iran: Challenges and Practical Solutions (in Persian). *Technical Report*, Final version, University of Kurdistan, January 2016.

[222] Bevrani H (2016) New Finding in Measurement-based Power Grid Control. Keynote speech, *The 4th Int. Congress on electric Industry Automation-ICEIA,* Tabriz, Iran, Feb. 23, 2016.

[221] Bevrani H (2016) Power Systems Monitoring and Control. Technical Workshop, *Iran Grid Management Co.-IGMC,* Tehran, Iran, March 5-9, 2016.

[220] Bevrani H (2016) How to Give an Effective Presentation, Invited Speech, Osaka University, Osaka, Japan, Aug. 3, 2016.

[219] Bevrani H (2016) Publishing a Book: Personal Experiences. Academic Workshop, *university of Kurdistan,* Sanandaj, Iran, Feb. 16, 2016.

[218] Bevrani H (2016) On Doing a Successful Research and Writing a Journal Paper, Invited Speech, Osaka University, Osaka, Japan, July 26, 2016.

[217] Naderi M, Khayat Y, Batmani Y, and Bevrani H (2016) Multivariable control based modeling, analysis and robust control synthesis for an islanded microgrid. in *3rd Int. Conf. on Power and Energy System Eng.* (*CPESE 2016*), Kitakyushu, Japan, Sept. 2016.

[216] Ataee S, Feizi M.R, Bevrani H (2016) Optimal operation of Renewable Energy-based Grid-connected Microgrid. *2nd National Conf. of Technology, Energy and Data on Electrical and Computer Eng.*, Kermanshah, Iran, May 2016.

[215] Bevrani H (2016) New findings in Microgrid control. Invited lecture, *IEEE Industrial Electronics Society* (*Japan Joint Chapter*), Osaka University, Osaka, Japan, Sept. 5, 2016.

[214] Bevrani H (2016) Writing a Technical Paper: Principles and Steps, Invited Speech, West Regional Electric Co.-WREC, Kermanshah, Iran, April 26, 2016.

[213] Bevrani H (2016) Planing and Doing a Successful Research, Invited Speech, West Regional Electric Co.-WREC, Kermanshah, Iran, Feb. 8, 2016.

[212] Ataee S, Feizi M.R, Bevrani H (2016) Improvement of Primary Frequency Control by Inertial Response Coordination between Wind and Conventional Power Plants. Submited to *International Transactions on Electrical Energy Systems*.

[211] Khezri R, Golshannavaz S, Shokoohi S, Bevrani H (2016) Fuzzy logic fine-tuning approach for robust load frequency control in a multi-area power system. *Electric Power Components and Systems*, vol. 44, no. 18, pp. 2073-2083 2016.

[210] Fathi A, Shafiee Q, and Bevrani H (2016) Robust frequency control of islanded microgrids using an extended virtual synchronous generator. *1st Int. Conf. on New Research Achievements in Electrical & Computer Eng.*, Tehran, May 12, 2016.

[209] Babahajiani P, Shafiee Q and Bevrani H (2016) Intelligent coordination of demand response and secondary frequency control in multi-area power systems. *1st IEEE Conf. on New Research Achievements in Electrical and Computer Engineering* (CBCONF), Tehran, Iran, May 2016.

[208] Ahmadi S, Shafiee Q, Nazarpour D, and Bevrani H (2016) Fuzzy logic based distributed secondary control for islanded microgrids. in Proc. *1st IEEE Conf. on New Research Achievements in Electrical and Computer Engineering* (CBCONF), Tehran, Iran, May 2016.

[207] Badmasti B, Bevrani H (2016) On contribution of DFIG with turbines in the secondary frequency control. in Proc. *1st IEEE Conf. on New Research Achievements in Electrical and Computer Engineering* (CBCONF), Tehran, Iran, May 2016.

[206] Ahmadi S, Nazarpour D, Shafiee Q, and Bevrani H (2016) A fuzzy inference model for distributed secondary control of islanded microgrids. *Iranian Conf. on Electrical Engineering* (ICEE), Tehran, Iran, May 10-12, 2016.

[205] Badmasti B, Bevrani H, Shafiee Q (2016) load frequency control of multi-area power systems using imperialist competitive algorithm. in Proc. *1st IEEE Conf. on New Research Achievements in Electrical and Computer Engineering* (CBCONF), Tehran, Iran, May 2016.

[204] Yarahmadi S, Naghshbandi AH, Bevrani H (2016) Robust control design for an islanded microgrid using H2 and H∞ (in Persian). in Proc. *1st IEEE Conf. on New Research Achievements in Electrical and Computer Engineering* (CBCONF), Tehran, Iran, May 2016.

[203] Sarchami O, Shafiee Q, and Bevrani H (2016) An under voltage-frequency load shedding method for emergency condition of microgrids. *1st Int. Conf. on New Research Achievements in Electrical & Computer Eng.*, Tehran, May 12, 2016.

[202] Fathi M, Bevrani H (2016) Regulating Power Management in Interconnected Microgrids. Submitted to *Electric Power Systems Research*.

[201] Babahajiani P, Bevrani H, Shafiee Q (2016) Intelligent Demand Response Contribution in Frequency Control of Multi-area Power Systems. *IEEE Transaction on Smart Grids*. DOI: 10.1109/TSG.2016.2582804.

[200] Liu J, Miura Y, Bevrani H, Ise T (2016) Enhanced virtual synchronous generator control for parallel inverters in microgrids. *IEEE Transaction on Smart Grids*. DOI: 10.1109/TSG.2016.2521405.

[199] Bevrani H (2016) Power grids frequency stability and control: New challenges and solutions. Keynote speech, *Int. Conf. on Power and Energy systems Engineering-CPESE 2016,* Kitakyushu, Sept. 8-10, Japan.

[198] Bevrani H (2016) Engineering education system in Japan: observations in study, teaching and research. *Journal of Dohuk University.*

[197] Bevrani H (2016) Frequency control in modern power grids, To be submitted to *IEEE Power & Energy Magazine*.

[196] Xingyu Y, Abbes D, Bevrani H, Francois B(2016) Day-ahead optimal and reserve power dispatching in PV based urban microgrid. To be presented in *18th European Conf on Power Electronics and Applications-EPE'16 ECCE*, Karlsruhe, Germany, 5-9 Sept. 2016.

2015

[195] Bevrani H (2015) New trends in Microgrids control. Keynote speech, *Int. Conf. on Power and Energy systems Engineering-CPESE 2015,* Kitakyushu, Sept. 8-10, Japan.

[194] Farhadi P, Navidi M, Gheydi M, Pazhoohesh M, and Bevrani H (2015) Online selective harmonic minimization for cascaded half-bridge multilevel inverter using artificial neural network, *Int. Aegean Conf. on Electrical Machines and Power Electronics,* Sept. 2-4, Side, Turkey.

[193] Bevrani, H. (2015) Intelligent Technologies in smart electric grids, Keynote speech, 2nd international Scientific Conf-University of Human Development (UHD Comp15), Sulaimaniyah, Iraq.

[192] Bevrani H (2015) New trends in power system frequency control. Invited speech by IEEJ and TAOYAKA, *Hiroshima University,* Hiroshima, August 18, Japan.

[191] Bevrani H (2015) Frequency stability and control in modern power systems. Invited speech by Nagoya University and EcoTopia Science Institute, *Nagoya*, August 5, Japan.

[190] Bevrani, H. (2015) Monitoring and control in future smart networks, Keynote speech, National Conference of Technology, Energy, and Data on Electrical and Computer Engineering, Kermanshah, Iran.

[189] Bevrani H (2015) Robust control application in modern power systems. Invited speech by Ise Laboratory and Kawasaki Heavy Industry, *Osaka University*, August 21, Japan.

[188] R. Khezri, H. Bevrani, (2015) Voltage Performance Enhancement of DFIG-Based Wind Farms Integrated in Large-Scale Power Systems: Coordinated AVR and PSS. *International Journal of Electrical Power and Energy Systems*, 73: 400-410.

[187] Ataee, S., Khezri, R., Feizi M. R., and Bevrani H. (2015) Impacts of Wind and Conventional Power Coordination on the Short-Term Frequency Performance, Awarded as the best paper, 23rd Iranian Conf. on Electrical Engineering ICEE, Tehran, Iran.

[186] Jami M, Bevrani H (2015) ANN-based speed control of separately excited DC motor (in Persian) National Conf. of Technology, Energy, and Data on Electrical and Computer Eng., Kermanshah, Iran.

[185] Ahmadi S, Shokoohi S, Bevrani H (2015) A fuzzy logic-based droop control for simultaneous voltage and frequency regulation in an AC microgrid. *International Journal of Electrical Power and Energy Systems*, 64: 148-155.

[184] Shokoohi S, Esmaeili S, Bevrani H (2015) Robust and optimal RF amplifier control loop design (in Persian) National Conf. of Technology, Energy, and Data on Electrical and Computer Eng., Kermanshah, Iran.

[183] R. Khezri, H. Bevrani, (2015) Stability Enhancement in Multi-Machine Power Systems by Fuzzy-based Coordinated AVR-PSS, International Journal of Energy Optimization and Engineering, 4(2): 36-50.

[182] Bevrani H, Ise T, Miura Y (2015) Virtual Synchronous Generators: A Survey and New Perspectives. *International Journal of Electrical Power and Energy Systems* (*IJEPES*), 54: 244-254.

[181] Bevrani H (2015) Research in developed countries: Lessens and challenges. Invited speech in Annual Research Meeting in Kurdistan state, *Sanandaj*, December 5, Iran.

[180] Fathi, M., Bevrani, H. (2015) Wireless networking of smart meters in next generation power systems, selected as the best paper, 2nd international Scientific Conf-University of Human Development (UHD Comp15), Sulaimaniyah, Iraq.

[179] Jami M, Bahramara S, Bevrani H (2015) Technical and economic assessment of hybrid energy system in a rural region (in Persian) National Conf. of Technology, Energy, and Data on Electrical and Computer Eng., Kermanshah, Iran.

[178] Feizi MR, Babahajiani P, Bevrani H (2015) Fuzzy-PI-based supervising frequency control design in a stand-alone ac microgrid. *Engineering Intelligent Systems*.

[177] Tikdari, G., Rashidi Nejad, M., Bevrani, H., Montazeri, M. (2015) Locational load shedding marginal pricing, 23rd Iranian Conf. on Electrical Engineering ICEE, Tehran, Iran.

[176] Khezri, R., Bevrani, H., (2015) AVR and PSS Coordinated Based Fuzzy Approach for Transient Stability Enhancement, 23rd Iranian Conf. on Electrical Engineering ICEE, Tehran, Iran.

[175] Ahmadi, S., S. Shokoohi, Bevrani, H., E. Hasanii, (2015) An improved droop control for simultaneous voltage and frequency regulation in an AC microgrid using fuzzy logic, 23rd Iranian Conf. on Electrical Engineering ICEE, Tehran, Iran.

[174] O. Sarchami, H. Bevrani, (2015) Online Voltage-Frequency Measurement Based Micro-Grid Emergency Control, selected as the best paper, National Conference of Technology, Energy, and Data on Electrical and Computer Engineering, Kermanshah, Iran.

[173] R. Homayonnejad, H. Bevrani, O. Jafari, (2015) A Firefly Algorithm-Based Load-Frequency Control Design Concerning the Integration of Renewable Energy Sources, National Conference of Technology, Energy, and Data on Electrical and Computer Engineering, Kermanshah, Iran.

[172] S. Mohammadi, H. Bevrani, J. Moshtagh **,** S. Bahramara, (2015) Techno-economical evaluation of stand-alone hybrid renewable energy systems for urban area in Sanandaj (Iran). National Conference of Technology, Energy, and Data on Electrical and Computer Engineering, Kermanshah, Iran.

2014

[171] Golpira H, Bevrani H (2014) A framework for economic load frequency control design using modified multi-objective genetic algorithm. *Electric Power Components and Systems*, 42(8): 788-797, 2014.

[170] Dalvand F, Kalantar A, Shokoohi S, Bevrani, H. (2014) Time-domain bearing condition monitoring in induction motors using instantaneous frequency of motor voltage, *Smart grid conference*, Tehran, Iran, Dec. 9-10.

[169] Bevrani H (2014) Frequency Stability and Control in Modern Power Grids, Invited speech by *Iran Academy of Sciences*, Tehran, Dec. 6, 2014.

[168] Bevrani H (2014) Engineering education system in Japan: observations in study, teaching and research. *Journal of Dohuk University*, 2014.

[167] Shokoohi S, Bevrani H, Moshtagh J, Ahmadi S (2014) Transient stability enhancement in microgrids including inverter interfaced distributed generation. *Journal of Iranian Association of Electrical and Electronics Engineers (JIAEEE)*, 2014.

[166] Naghshbandi AH, Habibi F, Bevrani H (2014) Design of a robust controller for microgrid voltage stability in different operation states (in Persian). *Journal of Iranian Association of Electrical and Electronics Engineers (JIAEEE)*, 2014.

[165] Bevrani H (2014) Robust frequency control: fundamentals and new perspectives. *Spring Workshop, Ecole Centrale de Lille*, France, April 2014.

[164] Bevrani H (2014) Intelligent data acquisition and control in wide power grids. *Keynote speech, Regional Conference on Wireless Communication Optimization*, Azad University, Sagez, Iran, Oct. 2014.

[163] Bevrani H (2014) Successful research and research ethics. *UOK IEEE Workshop*, University of Kurdistan, Iran, 2014.

[162] Bevrani H (2014) A new direction in power system control. *Invited speech in New Horizons in Electrical Power Grids*, University of Kurdistan, Iran, 2014.

[161] R. Khezri, H. Bevrani, (2014) Fuzzy-based coordinated control design for AVR and PSS in multi-machine power systems, 13th Iranian Conf. on Fuzzy Systems (IFSC), Tehran, Iran

[160] Shokoohi S, Sabori F, Bevrani, H. (2014) Secondary voltage and frequency control in islanded microgrids: online ANN tuning approach, *Smart grid conference*, Tehran, Iran.

[159] S. Ataee, R. Khezri, M. R. Feizi, Bevrani, H. (2014) Investigating the impacts of wind power contribution on the short-term frequency performance, Smart grid conference, Tehran, Iran.

[158] Bevrani H (2014) On future of robust control in smart grids, Invited paper, *Smart Grid Conference*, Tehran, Iran.

2013

[157] Bevrani H (2013) On Future Smart Grids operation and Control, Invited Speaker, Smart Grid Design and Technologies on the Electric Power Distribution System, Fukuoka institute of Technology, Fukuoka, July 29, Japan, 2013.

[156] Bevrani H (2013) Renewable Energy Options in Modern Power Grids: A Dynamic Challenge, *Invited Speaker in* 4th Conference on Renewable Energy Approaches for Desert (GCREEDER), Jordan.

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