

Hassan BEVRANI

PhD, IEEE Fellow



Current Positions

- Professor at *University of Kurdistan*, uok.ac.ir
- Head of *Smart/Micro Grids Research Center (SMGRC)*, smgrc.uok.ac.ir

Contact Information

- Dept. of Electrical and Computer Electrical Engineering, *University of Kurdistan, Kurdistan, Sanandaj, Iran*, PO Box 416. Phone & Fax: +98-918-8708246, +98-87-33660073.
- Academic Address & Web Pages: [E-mail](#) | [Webpage](#) | [Google Scholar](#) | [LinkedIn](#)
- ORCID: 0000-0001-7201-4127

Research Areas

- Robust Control, Intelligent Control
- Microgrid dynamic analysis and control
- Power converter stability and control
- Power systems control

Education

- *PhD*, Electrical Eng., Control Eng., *Osaka University*, Osaka, Japan, 2002~2004.
- *MSc*, Electrical Eng., Control Eng., *K. N. Toosi University of Technology*, Tehran, Iran, 1994~1997.
- *Bachelor*, Electrical Eng., Electronic Eng., *Ferdowsi University*, Mashhad, Iran, 1988~1991.

Professional and Academic Careers

- Professor, *University of Kurdistan, Kurdistan, Iran*, 2014- present.
- Founder and Leader of *Smart/Micro Grids Research Center (SMGRC)*, 2013- present.
- Minister's representative and Member of *Audit and Promotion Board*, *University of Razi, Kermanshah, Iran*, 2025-present.
- Assistant/Associate Professor, *University of Kurdistan, Kurdistan, Iran*, 2006~2014.

- Vice Chancellor for Research, *University of Kurdistan*, Kurdistan, Iran, 2016~2018.
- Member of the *Resilience Committee of WREC*, Kermanshah, Iran, 2021-Present.
- Member of *Kurdistan Committee of Iran's National Elites Foundation*, Iran, 2011-2017.
- Head of Department of Electrical Eng., University of Kurdistan, Iran, 2006-2007, 2012,
- Member of the *Technical Board of Consulting, Information, and Entrepreneurship Services Centers in the Department of Cooperatives, Labor, and Social Welfare* of Kurdistan Province, Iran, 2016-2017.
- The Counselor of the UOK IEEE Student Branch and Control Students Society, Kurdistan, Iran, 2013-2014, 2020-2021.
- Member of *Audit and Promotion Board*, University of Kurdistan, Kurdistan, Iran, 2013-2021.
- Member of the UOK Press Council, Kurdistan, Iran, 2013-2018.
- Member of the UOK Incubator, Kurdistan, Iran, 2017-2019.
- Member of the Science and Technology Park Council, Kurdistan, Iran, 2016-2018.
- Secretary of the Kurdistan Province Scientific Committee and the Research and Technology Festival, Kurdistan, Iran, 2016 and 2017.
- Member of the Monitoring, Evaluation, and Quality Assurance Board of the Ministry of Science, Research, and Technology in Kurdistan Province, Iran, 2011-2017.
- Member of the UOK Research and Technology Committee of the Strategic Council, Iran, 2014-2016.
- Member of the Specialized Engineering Commission of the UOK Audit and Promotion Board, Iran, 2012-2016.
- Member of the Scientific Ability Working Group in Electrical Engineering, UOK, Iran, 2009-Present.
- Vice President for Research and Graduate Studies, Faculty of Engineering, UOK, Iran, 2008-2010.
- Professor, *Kumamoto University, Kumamoto, Japan*, 2009~2010.
- Senior Research Fellow, *Queensland University of Technology, Brisbane, Australia*, 2007~2008.
- Post-Doctoral (JSPS) and Lecturer at *Kumamoto University, Kumamoto, Japan*, 2004~2006.
- Lecturer, *University of Kurdistan, Sanandaj, Iran*, 2001~2002.
- Chair of Research & Standards Office, *West Regional Electric Co. (WREC), Kermanshah, Iran*, 1998-2001.
- Founder, co-chair, and organizing board of the *Iranian Association of Electrical and Electronics Engineers (IAEEE)-West Branch*, Kermanshah, Iran, 1998~2021.
- Member of the *Research Committee of Kurdistan Power Distribution Co.*, Sanandaj, Iran, 2012-2014.

- Member of the Research Council of the Kurdistan Province Education, Sanandaj, Iran, 2014-2019.
- Scientific representative of the Iranian Society of Smart Grid at the University of Kurdistan, Iran, 2015.
- Member and/or Vice-chair of the *Central Research Committee of WREC*, Kermanshah, Iran, 1998-2001, 2006-2014.
- Representative of the Electrical Department in the Graduate Education Council of the Faculty of Eng., University of Kurdistan, Iran, 2010-2014.
- Member of the *Research Committee of Kurdistan Power Generation Management Co.*, Sanandaj, Iran, 2010-2012.
- Vice Chancellor for Faculty of Eng., University of Kurdistan, Kurdistan, Iran, 2008.
- Head of *Area Operating Center (AOC) Committee*, WREC, Kermanshah, Iran, 1996-1998.

Research Projects as Leading Investigator

- Industrial Transformation Training Centre in Electrifying Australia for a Net-zero Future, *Australian Research Council (ARC), RMIT University*, IC240100010, Australia, 2024-Present.
- Inverter-based Dynamic Shaping in Renewable Integrated Power Grids, *Institute of Material and Sustainable Systems (IMaSS), Nagoya University*, Japan, 2022-2024.
- Grid-Connected Converters Dynamic Modeling, Stability, and Control, *Doshisha University*, Kyoto, Japan, 2021-2025.
- Frequency Analysis based Centralized Load Shedding and Island Detection Using PMU Data, *Iran Grid Management Co. (IGMC), Iran*, 2017-2020.
- High Penetration of Microgrids in Power Systems: Dynamic Challenges and Control Solutions, *Alexander von Humboldt, Technische Universität Berlin*, Berlin, Germany, 2017-2019.
- Virtual Synchronous Generator, *Osaka University*, Japan, 2012-2020.
- A new Control Method for Virtual Inertia Generation in Microgrids, UOK, Iran, 2015.
- Microgrids Control, UOK, Iran, 2014.
- Study on Intelligent Microgrids and its challenges to develop relevant industries, and Implement a Laboratory Setup, *West Regional Electric Co., Kermanshah, Iran*, 2013-2015.
- Microgrids Control and Operation, *Centrale Lille*, Lille, France, 2015-2016,
- Virtual Inertia Generation for Distributed Power Generation, *Osaka University*, Japan, 2012.
- Generation of a Nature Grid for Sophisticated Green Campus, *Kyushu Institute of Technology*, Japan, 2011.
- Intelligent Automatic Generation Control, *Kyushu Electric Power Co., and Kumamoto University*, Japan, 2009-2010.

- Power System Emergency Control, *Kyushu Electric Power Co. and Kumamoto University*, Japan, 2009~2010.
- Power System Transient Stability Analysis Based on a Descriptive Study of the System Indices, UOK, Iran, 2011.
- Power System Load-Frequency Predictive Control, UOK, Iran, 2009.
- Stability and Performance Improvement of Resonant Converters, UOK, Iran, 2007.
- Power System Dynamic Load Shedding, *Power Link Co. and QUT*, Australia, 2007~2008.
- A New Method for Simultaneous Design of Automatic Voltage Regulator and Power System Stabilizer, UOK, Iran, 2008.
- Load-Frequency Control Design and Real-time Implementation, *Kumamoto University*, Japan, 2004~2006.

Research Projects as Supervisor

- Construction of WACS and WAPS Systems Based on WAMS in EREC, *Isfahan University of Technology University*, Iran, 2018~2020.
- Design and implementation of manipulator robot for brushing and cleaning in power line cleaner mobile robot for insulators washing, WREC and Amirkabir University, Iran, 2016-2019.
- Determine Dynamic Modeling of Bisetoon Power Plant for Transient Stability and Dynamic Evaluation, WREC, Kermanshah, Iran, 2005~2006.
- Strategic Road Map of West Regional Electric Co., WREC, Iran, 2006~2007.
- Study and Tuning of PSS Parameters for a Thermal Unit of Bisetoon Power Plant, WREC, Kermanshah, Iran, 2008~2009.
- Optimal Fault Indicators Allocation in Power Distribution Networks, WREC, Kermanshah, Iran, 2006.
- Nonlinear Control of Tow-Link Robots and Obtaining Maximum Load Carrying Capacity, Azad University of Sanandaj, Kurdistan, Iran, 2009.
- Increasing The Efficiency of Escalators and Designing Their New Generation, Azad University, Region 11 Secretariat, Iran, 2009.
- Design and Implementation of a Laboratory Prototype Devise for Remote Sensing of Initial Water Quality Indices, Kermanshah Province Rural Water and Wastewater Co., Kermanshah, Iran, 2013~2014.

Mentorship Activities

- Supervisor/Co-supervisor of over 20 graduated PhD students (*Iran and Japan*).
- Supervisor/Co-supervisor of over 50 graduated Master students (*Iran, China, and Japan*).

Teaching Duties and Institutional Responsibilities

Over 25 Years of teaching experience in different countries (Iran, Japan, France, Germany, and China) for the following selected subjects:

Linear Control Systems	Modern Control Systems	Pulse Techniques	Power Electronics 1
Microelectronic Circuits	Electric Circuits Theory	Power Electronics 2	Intelligent Control Systems
Multivariable Control	Robust Control Theory	Smart Grids Operation and Control	Microgrids Control
Artificial Neural networks	Research Methodology	Advanced Power System Frontier I and II	Intelligent Control in Power Systems
Electric Energy and Environment	Automatic Generation Control	Power System Dynamics and Control	English for Electrical Engineers
Robust Control Application in Power Systems	Fuzzy Control Systems	Wide-area Power System Monitoring and Control	Motion Control

Awards, Fellowships, and Distinguished Memberships

- Awarded the Allameh Tabatabaei Scientific Medal, National Foundation of Iranian Elites, 2025.
- Awarded as an outstanding professor in *Iran*, 2022.
- Elevated as *IEEE Fellow*, 2022.
- IEEE Lifetime Research Award, *IEEE Iran Section*, 2025.
- Awarded Outstanding Professor in Electrical Eng., *Iran Academy of Science*, Iran, 2025.
- Top 2% of *World Scientists* based on total citations, (5 times) 2020-2024.
- Top 1% of *World Scientists* based on total citations, (4 times) 2021-2024.
- Awarded Best Book Author, *University of Kurdistan, Iran*, (5 times) 2010-2024.
- Awarded Best Paper of *IEEE Transactions on Power Systems*, 2023.
- Awarded Outstanding Professor in Dept. of Electrical Eng., *University of Kurdistan*, Iran, (16 times) 2006-2025.
- Awarded Selected Applicable Research Project, Ministry of Science, Research and Technology, Iran (2 times), 2016 and 2021.
- Awarded Outstanding Researcher in *of Kurdistan Elites Foundation*, Kurdistan, Iran, 2022.
- Awarded Supervisorship of Outstanding PhD Thesis, Iran, 2022.

- Awarded Best Paper in 8 International Conferences: CPESE2023, ICCIDA2024, IEEJ2024 (2023-2024), and SGC2024, 2023~2024.
- Awarded *Excellent Management Rank* in the First Festival of Technology Management and Innovations in the Electricity Industry, Ministry of Energy, Iran, 2004.
- 1st Rank in Master's Degree (among all graduated master students), K. N. Toosi University of Technology, Tehran, Iran, 1997.
- Awarded M. Sc Scholarship, *Power Ministry of Iran*, 1994.
- Awarded PhD Scholarship, *Japan's Ministry of Education and Technology*, 2002.
- Awarded Postdoc Fellowship, *Japan Society for the Promotion of Science (JSPS)*, 2004.
- Awarded to Shorten the period of PhD study to 2 years, *Osaka University*, Japan, 2004.
- Awarded *Senior Research Fellowship*, *Queensland University of Technology*, Australia, 2007.
- Awarded *Special Professor Position*, *Kumamoto University*, Japan, 2009.
- Awarded *Best Professor, Teaching/Research*, *University of Kurdistan*, Iran, (several times) 2008~2023.
- Awarded *Visiting Professorship*, abroad universities in *Japan, France, and China*, 2011~2025.
- Awarded *Experienced Senior Research Fellow*, *AvH Foundation*, Berlin, Germany, 2017~2019.

Outreach and Contribution to Open Science, and Editorships

- Invited Keynote Speaker at 32 international conferences.
- Holding 47 national/international webinars and workshops.
- Founder of the *Smart/Micro Grids Research Center*, 2014.
- *Support establishing* the Faculty of Engineering, *University of Kurdistan*, Iran, 2001.
- PhD Admission Authority, Power System Control Eng., *University of Kurdistan*, Iran, 2014.
- PhD Admission Authority, Control Eng., *University of Kurdistan*, Iran, 2019.
- PhD Admission Authority, Electronics Eng., *University of Kurdistan*, Iran, 2021.
- *Organizing an Int. Winter School on Robust Control*, *University of Kurdistan*, Iran, 2021.
- Guest Editor of 4 proceedings by *Elsevier Energy Reports* and *Energy Procedia*, 2016~2022.
- Associate Editor, *Journal of Modern Power Systems and Clean Energy (MPCE)*, 2019~Present
- Guest Editor in Chief for *a Special Section, MPCE journal*, 2024-2025.
- The Editorial board of *Int. Journal of Research and Technology in Electrical Industry (IJRTEI)*, 2024~Present.

- Editorial board of *Int. Journal of Industrial Electronics, Control and Optimization (IECO)*, 2020~Present.
- Advisory Board of *Int. Journal of Intelligent Engineering and Systems*, 2022~Present.
- Editorial board of *Journal of Engineering-University of Baghdad*, 2023~Present.
- Advisory Board of *ICAIIIT Proceeding Journal*, 2020~Present.

Research Career Breaks (Visiting Professor)

- *Shenyang University of Technology, Shenyang, China*, 2024~2026.
- *Doshisha University, Kyoto, Japan*, 2022~2026, July~Sept.
- *Nagoya University, Nagoya, Japan*, 2022, March.
- *Doshisha University, Kyoto, Japan*, 2020~2021, Dec~Sept.
- *Nagoya University, Nagoya, Japan*, 2020, Sept~Oct.
- *Osaka University, Osaka, Japan*, 2019~2020, Sept~Aug.
- *Technische Universitaet Berlin (TUB), Berlin, Germany*, 2018, July~Sept.
- *Technische Universitaet Berlin (TUB), Berlin, Germany*, 2017, July~Sept.
- *Centrale Lille, Lille, France*, 2015~2016, Dec~Jan.
- *Osaka University, Osaka, Japan*, 2015, Aug~Sept.
- *Ecole Centrale de Lille, Lille, France*, 2014, March~April.
- *Kyushu Institute of Technology, Kitakyushu, Japan*, 2013, July~Aug.
- *Osaka University, Osaka, Japan*, 2012, Aug~Sept.
- *Kyushu Institute of Technology, Kitakyushu, Japan*, 2011, July~Sept.

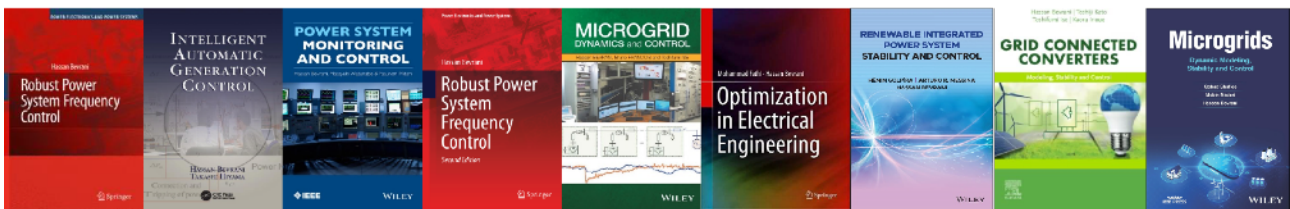
Organizing and Chair of Conferences

- Chairman of *The 3rd-12th International Conference on Power and Energy Systems Engineering (CPESE)*, Japan, and Germany, (9 years) 2015~2023.
- Chairman of *The 1st-6rd International Conference on Electrical Engineering and Green Energy (CEEGE)*, Japan, Italy, and Germany, (6 years) 2018~2023.
- Chairman of *The 1st-2rd International Conference on Power and Energy Technology (ICPET)*, France, and Morocco, (2 years) 2018~2019.
- Chairman of *The 6th IEEE-sponsored International Conference on Control, Instrumentation, and Automation (ICCIA)*, Iran, 2019.

- Co-chairman of *The 1st-13th International Conference on Applied Innovation in IT (ICAIIIT)*, Germany, (13 years) 2018~2022.
- Chairman of *The 8th IEEE-sponsored Smart Grid Conference (SGC)*, Iran, 2018.
- Chairman of *The IEEE International Conference on Power and Renewable Energy (ICPRE)*, China, 2016.
- Chairman of *The Int. Symposium on Smart Grid Operation and Control (ISSGOC)*, 2012, University of Kurdistan.

Publications: Books

1. Bevrani H, *Robust Power System Frequency Control*, Springer, New York, USA, 2009.
2. Bevrani H, Hiyama T, *Intelligent Automatic Generation Control*, CRC Press, Taylor & Francis Group, New York, USA, 2011.
3. Bevrani H, Watanabe M, Mitani Y, *Power System Monitoring and Control*, IEEE-Wiley Press, New York, USA, 2014.
4. Bevrani H, *Robust Power System Frequency Control*, 2nd edition, Springer, Switzerland, 2014.
5. Bevrani H, Francois B, Ise T, *Microgrid Dynamics and Control*, Wiley, New York, USA, 2017.
6. Fathi M, Bevrani H, *Optimization in Electrical Engineering*, Springer, Switzerland, 2019.
7. Golpira H, Messina AR, and Bevrani H, *Renewable Integrated Power System Stability and Control*, IEEE-Wiley Press, USA, 2021.
8. Bevrani H, Kato T, Ise T, and Inoue K, *Grid Connected Converter: Modeling, Stability and Control*, Elsevier, 2022.
9. Shafiee Q, Naderi M, and Bevrani H, *Microgrids: Dynamic Modeling, Stability, and Control*, IEEE-Wiley Press, USA, 2023.



Publications: Translated Books to Chinese

- *Robust Power System Frequency Control*, 2nd edition, Springer, Switzerland.
- *Power System Monitoring and Control*, IEEE-Wiley Press, New York, USA.



Publications: Book Chapters

1. Rehim S, Bevrani H, Kato T, Kato T, Grid-connected converters in power grids systems: a systematic review on impacts and challenges. *Energy Efficiency of Modern Power and Energy Systems*, (Eds), 415-441, Elsevier, 2024.
2. Rehim S, Bevrani H, Urabe C, Kato T, Microgrid Control Assessment Using Advanced Hardware in the Loop Technology, *Microgrids and Virtual Power Plants*, Shahnia F and Guerrero J (Eds), 312-348, Springer, 2024.
3. Khayat Y, Naderi M, Bevrani H, Blaabjerg F, Virtual inertia emulating in power electronic-based power systems. *Control of Power Electronic Converters and Systems*. Blaabjerg F (Eds), 541-560, AC, Elsevier, 2021.
4. Liu Q, Bevrani H, Mitani Y, 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, 2018.
5. Ise T, Bevrani H, 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, 2016.
6. Babahajjai P, Habibi F, Bevrani H, An online 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, 2014.
7. Bevrani H, Habibi F, Shokoohi S, 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, 2013.
8. Bevrani H, Automatic generation control. In *Standard Handbook for Electrical Engineers*, 16th Edition. H. Wayne Beaty (Ed), Section 16.8, pp. 139-160, McGraw-Hill, USA, 2012.
9. Bevrani H, Microgrid controls. In *Standard Handbook for Electrical Engineers*, 16th Edition. H. Wayne Beaty (Ed), Section 16.9, pp. 160-176, McGraw-Hill, USA, 2012.
10. Saleh M. and Bevrani H, 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.
11. Tikdari A. G. Bevrani H, and Ledwich G, 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, 2011.
12. Bevrani H, and Bevrani H, PID tuning: robust and intelligent multi-objective approaches. In *Advances in PID Control*. Valery D. Yurkevich (Ed), Chapter 9, pp. 167-186, Intech Publisher, 2011.
13. Bevrani H, Tikdari A. G, 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, 2010.
14. Bevrani H, Daneshfar F, Daneshmand P. R, 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, 2010.



Publications: Journal Papers

1. A Atarodi, H Golpîra, H Bevrani, An online clustering-based optimal distributed damping controller design, *Electric Power Systems Research* 247, 111819, 2025.
2. S Rehim, H Bevrani, CT Urabe, T Kato, A stabilizing solution for the control system parameters tuning problem, *ISA transactions* 161, 261-275, 2025.
3. S Cheng, H Wang, Z Chen, Z Yang, S Rehim, H Bevrani, J Yang, Consistency theory-based distributed coordinated control Scheme for a multi-VSGs network, *Journal of Circuits, Systems and Computers*, 2025.
4. H Bevrani, F Milano, Guest Editorial: Special Section on Dynamic Performance and Flexibility Enhancement of RES-dominated Power Systems with Grid-forming Converters, *Journal of Modern Power Systems and Clean Energy* 13 (1), 1-2, 2025.
5. M Samiei Sarkhanloo, H Bevrani, R Mirzaei, A comprehensive coordinated frequency control scheme for double-fed induction generator wind turbine, battery, and diesel generators in islanded microgrids, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* 47 (1), 2025.
6. S Rehim, H Bevrani, CT Urabe, T Kato, T Kato, Smart Tuning of Control System Parameters for a Grid Connected Converter: A Robust Artificial Neural Network Approach, *Electronics* 14 (4), 699, 2025.
7. S Rehim, H Bevrani, CT Urabe, T Kato, Robust Optimal Power Grid Frequency Regulation Support using Grid Forming Converters, *IEEE Transactions on Power and Energy* 145 (2), 123-135, 2025.
8. S Amini, H Golpîra, H Bevrani, J Moshtagh, An Innovative Approach for Inertia Estimation in Power Grids: Integrating ANN and Equal Area Criterion, *IET Generation, Transmission & Distribution* 19 (1), e70041, 2025.
9. S Rehim, H Bevrani, H Tarimoradi, CT Urabe, T Kato, T Kato, Robust Optimal Frequency Response Enhancement Using Energy Storage-Based Grid-Forming Converters, *Energies* 17 (19), 4948, 2025.
10. S Shazdeh, H Golpîra, H Bevrani, A data-driven transient stability-based approach for out-of-step prediction in power systems, *IET Generation, Transmission & Distribution* 18 (21), 3407-3423, 2024.
11. F Ahmadi, Y Batmani, H Bevrani, Model Reference Adaptive Controller for Simultaneous Voltage and Frequency Restoration of Autonomous AC Microgrids, *Journal of Modern Power Systems and Clean Energy*, In Press, 2024.
12. S Rehim, H Bevrani, CT Urabe, T Kato, Grid Forming Converter Control System Synthesis: A Static Output Feedback Approach, *IEEE Transactions on Electrical and Electronic Engineering*, March 2024.
13. HH Abbas, Q Shafiee, H Bevrani, Optimal passive LCL filter design for grid-connected converters in weak grids, *Electric Power Systems Research* 235, 110896, 2024.
14. S Shazdeh, H Golpîra, H Bevrani, Advanced and smart protection schemes in renewable integrated power systems: A survey and new perspectives, *Electric Power Systems Research* 235, 110832, 2024.
15. H Golpîra, B Francois, B Marinescu, H Bevrani, Estimation of aggregated inertia constant and load damping: A PMU-based analytical approach, *Electric Power Systems Research* 234, 110736, 2024.
16. S Shazdeh, H Golpîra, H Bevrani, A Data-Driven Transient Stability-Based Approach for Out-of-Step Prediction in Power Systems, *Journal of Modern Power Systems and Clean Energy*, In Press, 2024.

17. M Naderi, Y Khayat, Q Shafiee, F Blaabjerg, H Bevrani, Robust Synchronization of Multiple Converter-Based Weak Microgrids for Smooth Interconnection, *IEEE Transactions on Power Systems*, 39 (2), 2763 - 2774, 2024.
18. M Yaribeygi, Z Karami, Q Shafiee, H Bevrani, Distributed Hybrid Model Predictive Secondary Control of DC Microgrids with Random Communication Disorders, *Journal of Modern Power Systems and Clean Energy*, 12 (3), 925-935, 2023.
19. M Naderi, Q Shafiee, F Blaabjerg, H Bevrani, Synchronization Stability of Interconnected Microgrids with Fully Inverter-Based Distributed Energy Resources, *Journal of Modern Power Systems and Clean Energy*, 11(4), 1257 - 1268, 2023.
20. F Ahmadi, Y Batmani, H Bevrani, T Yang, C Cui, Finite-time synergetic controller design for DC microgrids with constant power loads, *IEEE Transactions on Smart Grid*, 14(5), 3352 - 3361, 2023.
21. S Shazdeh, H Golpîra, H Bevrani, A PMU-based backup protection scheme for fault detection considering uncertainties, *International Journal of Electrical Power & Energy Systems* 145, 108592, 2023.
22. M Naderi, Y Khayat, Q Shafiee, F Blaabjerg, H Bevrani, Dynamic modeling, stability analysis and control of interconnected microgrids: A review, *Applied Energy* 334, 120647, 2023.
23. A Rafiee, Y Batmani, A Mehrizi-Sani, T Kato, H Bevrani, Zero-Level Control Design in AC Microgrids: A Robust Multivariable Approach, *IEEE Transactions on Power Electronics*, 38 (7), 8394 - 8405, 2023.
24. MA Nezhad, H Bevrani, Mu and Hinf optimization control based on optimal oxygen excess ratio for the Proton Exchange Membrane Fuel Cell (PEMFC), *Journal of Industrial and Management Optimization* 19 (6), 3913-3930, 2023.
25. M Davoodi, H Bevrani, A new application of the hardware in the loop test of the min–max controller for turbofan engine fuel control, *Advanced Control for Applications: Engineering and Industrial Systems* 5 (2), e138, 2023.
26. AJ Ali, HH Abbas, H Bevrani, Comparative Analysis of H2 and H ∞ Robust Control Design Approaches for Dynamic Control Systems, *Journal of Engineering* 29 (08), 1-15, 2023.
27. F Ahmadi, Y Batmani, H Bevrani, On design of power sharing for VSC-based islanded AC microgrids: An adaptive MIMO controller equipped with a predictor, *IET Generation, Transmission & Distribution*, 2023.
28. S Najafi, Y Batmani, H Bevrani, Wide-area damping controller design: An event-triggered approach, *Electric Power Systems Research* 225, 109872, 2023.
29. S Shazdeh, H Golpîra, H Bevrani, An Adaptive Data-driven Method Based on Fuzzy Logic for Determining Power System Voltage Status, *Journal of Modern Power Systems and Clean Energy*, 12 (3), 707-718, 2023
30. AJ Ali, S Shazdeh, H Bevrani, R Mirzaei, Q Shafiee, An Effective Damping Control Approach in Grid-Connected Converters, *International Journal of Industrial Electronics Control and Optimization*, 6(4), 269-279, 2023
31. A Rafiee, Y Batmani, A Mehrizi-Sani, H Bevrani, Load Frequency Control in Microgrids: A Robust Bi-Objective Virtual Dynamics Technique, *IEEE Transactions on Power Systems*, In press, 2023.
32. H Golpîra, H Bevrani, AR Messina, B Francois, A data-driven under frequency load shedding scheme in power systems, *IEEE Transactions on Power Systems* 38 (2), 1138-1150, 2023.
33. A Bakeer, G Magdy, A Chub, H Bevrani, A sophisticated modeling approach for photovoltaic systems in load frequency control, *International Journal of Electrical Power & Energy Systems* 134, 107330, 2022.
34. S Rehim, H Bevrani, R Mirzaei, Q Shafiee, M Naderi, T Kato, On frequency response modeling of interconnected microgrids: Two different perspectives, *e-Prime-Advances in Electrical Engineering, Electronics and Energy* 2, 100058, 2022.
35. M Gholami, O Shahryari, N Rezaei, H Bevrani, Optimum storage sizing in a hybrid wind-battery energy system considering power fluctuation characteristics, *Journal of Energy Storage* 52, 104634, 2022.
36. Y Batmani, Y Khayat, A Salimi, H Bevrani, S Mirsaedi, C Konstantinou, SDRE-based primary control of DC Microgrids equipped by a fault detection/isolation mechanism, *Energy Reports* 8, 8215-8224, 2022.
37. H Golpîra, S Amini, A Atarodi, H Bevrani, A data-driven inertia adequacy-based approach for sustainable expansion planning in distributed generations-penetrated power grids, *IET Generation, Transmission & Distribution* 16 (22), 4614-4629, 2022.

38. M Seifi Laleh, M Razaghi, H Bevrani, Modeling optical filters based on serially coupled microring resonators using radial basis function neural network, *Soft Computing* 25, 585-598, 2021.
39. M Jami, Q Shafiee, H Bevrani, Dynamic Improvement of DC Microgrids with CPLs Using Virtual Inertia Concept, *International Journal of Industrial Electronics Control and Optimization* 4(1), 67-76, 2021.
40. M Samiei Sarkhanloo, H Bevrani, R Mirzaei, A comprehensive coordinated frequency control scheme for double-fed induction generator wind turbine, battery, and diesel generators in islanded microgrids, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-23, 2021.
41. H Ota, J Liu, Y Miura, Y Yanagisawa, A Wada, S Sakabe, H Bevrani, T Ise, Multiphase direct ac wireless power transfer system: Comparative proposals using frequency and amplitude modulations, *IEEE Journal of Emerging and Selected Topics in Industrial Electronics* 2 (2) 101-112, 2021.
42. J Liu, H Bevrani, T Ise, A Design-Oriented Q-V Response Modeling Approach for Grid-Forming Distributed Generators Considering Different Operation Modes, *IEEE Journal of Emerging and Selected Topics in Power Electronics* 10 (1), 387-401, 2021.
43. [F Habibi, Q Shafiee, H Bevrani, Generalized droop characteristic-based Demand Response for Frequency Control in Isolated Microgrids, *Tabriz Journal of Electrical Engineering*, 50 (4), 1541-1551, 2021.
44. J Liu, H Golpîra, H Bevrani, T Ise, Grid integration evaluation of virtual synchronous generators using a disturbance-oriented unified modeling approach, *IEEE Transactions on Power Systems* 36 (5), 4660-4671, 2021.
45. H Bevrani, H Golpîra, AR Messina, N Hatziargyriou, F Milano, T Ise, Power system frequency control: An updated review of current solutions and new challenges, *Electric Power Systems Research* 194, 107114, 2021.
46. A Rafiee, Y Batmani, F Ahmadi, H Bevrani, Robust load-frequency control in islanded microgrids: Virtual synchronous generator concept and quantitative feedback theory, *IEEE Transactions on Power Systems* 36 (6), 5408-5416, 2021.
47. H Ahmadi, Q Shafiee, H Bevrani, Mathematical modeling of islanded microgrid with static and dynamic loads, *Nexo Revista Científica* 34 (02), 886-905, 2021.
48. N Harag, M Imanaka, M Kurimoto, S Sugimoto, H Bevrani, T Kato, Autonomous dual active power-frequency control in power system with small-scale photovoltaic power generation, *Journal of Modern Power Systems and Clean Energy* 10 (4), 941-953, 2021.
49. L Tightiz, H Yang, H Bevrani. An Interoperable Communication Framework for Grid Frequency Regulation Support from Microgrids, *Sensors* 21 (13), 4555, 2021.
50. H Ahmadi, Q Shafiee, H Bevrani, Dynamic modeling and transient stability analysis of distributed generators in a microgrid system, *International Journal of Electrical and Computer Engineering (IJECE)* 11 (5), 3692-3703, 2021.
51. A Rafiee, Y Batmani, H Bevrani, T Kato, Robust mimo controller design for vsc-based microgrids: Sequential loop closing concept and quantitative feedback theory, *IEEE Transactions on Smart Grid* 13 (1), 129-138, 2021.
52. M Naderi, Y Khayat, Q Shafiee, T Dragicevic, H Bevrani, F Blaabjerg, Comprehensive small-signal modeling and Prony analysis-based validation of synchronous interconnected microgrids, *Energy Reports* 7, 6677-6689, 2021.
53. G Elhassan, SA Zulkifli, SZ Iliya, H Bevrani, M Kabir, R Jackson, MH Khan, Deadbeat current control in grid-connected inverters: A comprehensive discussion, *IEEE Access* 10, 3990-4014, 2021.
54. HS Hlaing, J Liu, H Bevrani, T Ise, PMSG control for a stand-alone gas engine generator using active rectifier and VSG-controlled inverter, *Energies* 13 (1), 233, 2020.
55. W Do, H Bevrani, Q Shafiee, K Eguchi, An analytical approach for design of a cross-connected fibonacci switched capacitor converter, *Energies* 13 (2), 431, 2020.
56. J Liu, Y Miura, H Bevrani, T Ise, A unified modeling method of virtual synchronous generator for multi-operation-mode analyses, *IEEE Journal of Emerging and Selected Topics in Power Electronics* 9 (2), 2394-2409, 2020.
57. M Al-Tameemi, Y Miura, J Liu, H Bevrani, T Ise, A novel control scheme for multi-terminal low-frequency AC electrical energy transmission systems using modular multilevel matrix converters and virtual synchronous generator ..., *Energies* 13 (3), 747, 2020.

58. Y Khayat, R Heydari, M Naderi, T Dragicevic, Q Shafiee, M Fathi, H Bevrani, Decentralized frequency control of AC microgrids: An estimation-based consensus approach, *IEEE Journal of Emerging and Selected Topics in Power Electronics* 9 (5), 5183-5190, 2020.
59. J Jongudomkarn, J Liu, Y Yanagisawa, H Bevrani, T Ise, Model predictive control for indirect boost matrix converter based on virtual synchronous generator, *IEEE Access* 8, 60364-60381, 2020.
60. M Jami, Q Shafiee, K Eguchi, H Bevrani, Stability and Inertia Response Improvement of Boost Converters Interlaced with Constant Power Loads, *International Journal of Innovative Computing, Information and Control* 16 (2), 765-782, 2020.
61. M Al-Tameemi, J Liu, H Bevrani, T Ise, A dual VSG-based M3C control scheme for frequency regulation support of a remote ac grid via low-frequency ac transmission system, *IEEE Access* 8, 66085-66094, 2020.
62. M Naderi, Y Khayat, Q Shafiee, T Dragičević, H Bevrani, F Blaabjerg, Interconnected autonomous ac microgrids via back-to-back converters—Part II: Stability analysis, *IEEE Transactions on Power Electronics* 35 (11), 11801-11812, 2020.
63. A Karimi, Y Jafarian, H Bevrani, R Mirzaei, Frequency response improvement in microgrids: a fuzzy-based virtual synchronous generator approach, *International Journal of Industrial Electronics Control and Optimization* 3(2), 147-158, 2020.
64. H Golpîra, A Atarodi, S Amini, AR Messina, B Francois, H Bevrani, Optimal energy storage system-based virtual inertia placement: A frequency stability point of view, *IEEE Transactions on Power Systems* 35 (6), 4824-4835, 2020.
65. D Terazono, J Liu, Y Miura, S Sakabe, H Bevrani, T Ise, Grid frequency regulation support from back-to-back motor drive system with virtual-synchronous-generator-based coordinated control, *IEEE Transactions on Power Electronics* 36 (3), 2901-2913, 2020.
66. M Jami, Q Shafiee, H Bevrani, Dynamic improvement of DC microgrids using a dual approach based on virtual inertia, *Journal of Modern Power Systems and Clean Energy* 10 (3), 667-677, 2020.
67. Y Khayat, JM Guerrero, H Bevrani, Closure to Discussion on “Decentralized Optimal Frequency Control in Autonomous Microgrids”, *IEEE Transactions on Power Systems* 35 (6), 4973-4973, 2020.
68. Y Khayat, S Golestan, JM Guerrero, JC Vasquez, H Bevrani, Dc-link voltage control aided for the inertial support during severe faults in weak grids, *IEEE Journal of Emerging and Selected Topics in Power Electronics* 9 (6), 7296-7305, 2020.
69. M Naderi, Q Shafiee, H Bevrani, F Blaabjerg, Low-frequency small-signal modeling of interconnected AC microgrids, *IEEE Transactions on Power Systems* 36 (4), 2786-2797, 2020.
70. M Jami, Q Shafiee, M Gholami, H Bevrani, Control of a super-capacitor energy storage system to mimic inertia and transient response improvement of a direct current micro-grid, *Journal of Energy Storage* 32, 101788, 2020.
71. Z Karami, Q Shafiee, S Sahoo, M Yari beygi, H Bevrani, T Dragicevic, Hybrid model predictive control of DC–DC boost converters with constant power load, *IEEE Transactions on Energy Conversion* 36 (2), 1347-1356, 2020.
72. R Khezri, A Oshnoei, S Oshnoei, H Bevrani, SM Muyeen, An intelligent coordinator design for GCSC and AGC in a two-area hybrid power system, *Applied Soft Computing* 76, 491-504, 2019.
73. H Golpîra, AR Messina, H Bevrani, Emulation of virtual inertia to accommodate higher penetration levels of distributed generation in power grids, *IEEE Transactions on Power Systems* 34 (5), 3384-3394, 2019.
74. G Magdy, G Shabib, AA Elbaset, T Kerdphol, Y Qudaih, H Bevrani, Tustin's technique based digital decentralized load frequency control in a realistic multi power system considering wind farms and communications delays, *Ain Shams Engineering Journal* 10 (2), 327-341, 2019.
75. F Habibi, Q Shafiee, H Bevrani, Online generalized droop-based demand response for frequency control in islanded microgrids, *Electrical Engineering* 101, 409-420, 2019.
76. Y Jafarian, A Karimi, H Bevrani, Secondary voltage control in a hybrid microgrid, *International Journal of Industrial Electronics Control and Optimization* 2(3), 221-232, 2019.

77. A Karimi, Y Khayat, M Naderi, T Dragičević, R Mirzaei, F Blaabjerg, H Bevrani, Inertia response improvement in AC microgrids: A fuzzy-based virtual synchronous generator control, *IEEE Transactions on Power Electronics* 35 (4), 4321-4331, 2019.
78. H Golpîra, H Bevrani, A New Measurement-Based Approach for Power System Small Signal stability and Voltage Regulation Enhancement, *Journal of Iranian Association of Electrical and Electronics Engineers* 16 (3), 61-72, 2019.
79. M Naderi, Y Khayat, Q Shafiee, T Dragicevic, H Bevrani, F Blaabjerg, Interconnected autonomous AC microgrids via back-to-back converters—Part I: Small-signal modeling, *IEEE Transactions on Power Electronics* 35 (5), 4728-4740, 2019.
80. Y Khayat, Q Shafiee, R Heydari, M Naderi, T Dragičević, H. Bevrani, On the secondary control architectures of AC microgrids: An overview, *IEEE Transactions on Power Electronics* 35 (6), 6482-6500, 2019.
81. M Naderi, Y Khayat, Q Shafiee, T Dragičević, F Blaabjerg, H Bevrani, An emergency active and reactive power exchange solution for interconnected microgrids, *IEEE Journal of Emerging and Selected Topics in Power Electronics* 9 (5), 5206-5218, 2019.
82. Z Karami, Q Shafiee, Y Khayat, M Yarbeygi, T Dragičević, H Bevrani, Decentralized model predictive control of DC microgrids with constant power load, *IEEE Journal of Emerging and Selected Topics in Power Electronics* 9 (1), 451-460, 2019.
83. HS Hlaing, J Liu, Y Miura, H Bevrani, T Ise, Enhanced performance of a stand-alone gas-engine generator using virtual synchronous generator and energy storage system, *IEEE Access* 7, 176960-176970, 2019.
84. G Magdy, G Shabib, AA Elbaset, T Kerdphol, Y Qudaih, H Bevrani, et al., A novel design of decentralized lfc to enhance frequency stability of Egypt power system including wind farms, *International Journal on Energy Conversion* 6 (1), 17-29, 2018.
85. Y Hirase, K Abe, K Sugimoto, K Sakimoto, H Bevrani, T Ise, A novel control approach for virtual synchronous generators to suppress frequency and voltage fluctuations in microgrids, *Applied Energy* 210, 699-710, 2018.
86. M Aryan Nezhad, H Bevrani, Frequency control in an islanded hybrid microgrid using frequency response analysis tools, *IET Renewable Power Generation* 12 (2), 227-243, 2018.
87. R Khezri, S Golshannavaz, H Bevrani, Three-stage fuzzy coordinator for dynamic stability enhancement of multi-machine power system considering various penetration levels of wind turbines, *Electric Power Components and Systems* 46 (10), 1185-1197, 2018.
88. A Fathi, Q Shafiee, H Bevrani, Robust frequency control of microgrids using an extended virtual synchronous generator, *IEEE Transactions on Power Systems* 33 (6), 6289-6297, 2018.
89. R Khezri, S Golshannavaz, S Shokoohi, H Bevrani, Toward intelligent transient stability enhancement in inverter-based microgrids, *Neural Computing and Applications* 30, 2709-2723, 2018.
90. S Shokoohi, S Golshannavaz, R Khezri, H Bevrani, Intelligent secondary control in smart microgrids: an on-line approach for islanded operations, *Optimization and Engineering* 19, 917-936, 2018.
91. Y Khayat, M Naderi, Q Shafiee, Y Batmani, M Fathi, JM Guerrero, et al., Decentralized optimal frequency control in autonomous microgrids, *IEEE Transactions on Power Systems* 34 (3), 2345-2353, 2018.
92. S Ataee, H Bevrani, Improvement of primary frequency control by inertial response coordination between wind and conventional power plants, *International Transactions on Electrical Energy Systems* 27 (8), e2340, 2017.
93. MA Nezhad, H Bevrani, Real-time AC voltage control and power-following of a combined proton exchange membrane fuel cell, and ultracapacitor bank with nonlinear loads, *International journal of hydrogen energy* 42 (33), 21279-21293, 2017.
94. M Fathi, H Bevrani, Regulating power management in interconnected microgrids, *Journal of Renewable and Sustainable Energy* 9 (5) , 2017.
95. M Naderi, S Bahramara, Y Khayat, H Bevrani, Optimal planning in a developing industrial microgrid with sensitive loads, *Energy Reports* 3, 124-134, 2017.
96. L Jia, Y Miura, H Bevrani, Enhanced virtual synchronous generator control for parallel inverters in microgrids , *IEEE Transactions on Smart Grid*, 1-10, 2016.

97. S Shokoohi, H Bevrani, J Moshtagh, S Ahmadi, Transient Stability Enhancement in Microgrids Including Inverter Interfaced Distributed Generations, *Journal of Iranian Association of Electrical and Electronics Engineers* 12 (3), 1-8, 2016.
98. J Liu, Y Miura, H Bevrani, T Ise, Enhanced virtual synchronous generator control for parallel inverters in microgrids, *IEEE Transactions on Smart Grid* 8 (5), 2268-2277, 2016.
99. P Babahajiani, Q Shafiee, H Bevrani, Intelligent demand response contribution in frequency control of multi-area power systems, *IEEE Transactions on Smart Grid* 9 (2), 1282-1291, 2016.
100. R Khezri, S Golshannavaz, S Shokoohi, H Bevrani, Fuzzy logic-based fine-tuning approach for robust load frequency control in a multi-area power system, *Electric Power Components and Systems* 44 (18), 2073-2083, 2016.
101. S Ahmadi, S Shokoohi, H Bevrani, A fuzzy logic-based droop control for simultaneous voltage and frequency regulation in an AC microgrid, *International Journal of Electrical Power & Energy Systems* 64, 148-155, 2015.
102. R Khezri, H Bevrani, Stability Enhancement in Multi-Machine Power Systems by Fuzzy-based Coordinated AVR-PSS, *International Journal of Energy Optimization and Engineering (IJEEO)* 4 (2), 36-50, 2015.
103. H Bevrani, MR Feizi, S Ataee, Robust Frequency Control in an Islanded Microgrid: Hinf and Mu-Synthesis Approaches, *IEEE transactions on smart grid* 7 (2), 706-717, 2015.
104. R Khezri, H Bevrani, Voltage performance enhancement of DFIG-based wind farms integrated in large-scale power systems: Coordinated AVR and PSS, *International Journal of Electrical Power & Energy Systems* 73, 400-410, 2015.
105. H Bevrani, T Ise, Y Miura, Virtual synchronous generators: A survey and new perspectives, *International Journal of Electrical Power & Energy Systems* 54, 244-254, 2014.
106. H Golpîra, H Bevrani, A framework for economic load frequency control design using modified multi-objective genetic algorithm, *Electric Power Components and Systems* 42 (8), 788-797, 2014.
107. F Habibi, AH Naghshbandy, H Bevrani, Robust voltage controller design for an isolated Microgrid using Kharitonov's theorem and D-stability concept, *International Journal of Electrical Power & Energy Systems* 44 (1), 656-665, 2013.
108. H Bevrani, M Gholami, N Hajimohammadi, Microgrids Emergency Control and Protection: Key Issues and New Perspectives, *International Journal of Energy Optimization and Engineering (IJEEO)* 2 (1), 78-100, 2013.
109. M Fathi, H Bevrani, Statistical cooperative power dispatching in interconnected microgrids, *IEEE Transactions on Sustainable Energy* 4 (3), 586-593, 2013.
110. A Hesami Naghshbandy, F Habibi, H Bevrani, Robust Control Design for Stabilizing of Microgrid Voltage in different operating conditions, *Journal of Iranian Association of Electrical and Electronics Engineers* 10 (1), 23-32, 2013.
111. M Fathi, H Bevrani, Adaptive energy consumption scheduling for connected microgrids under demand uncertainty, *IEEE Transactions on Power Delivery* 28 (3), 1576-1583, 2013.
112. H Bevrani, S Shokoohi, An intelligent droop control for simultaneous voltage and frequency regulation in islanded microgrids, *IEEE Transactions on smart grid* 4 (3), 1505-1513, 2013.
113. H Bevrani, PR Daneshmand, P Babahajyani, Y Mitani, T Hiyama, Intelligent LFC concerning high penetration of wind power: synthesis and real-time application, *IEEE Transactions on Sustainable Energy* 5 (2), 655-662, 2013.
114. H Golpira, H Bevrani, AH Naghshbandy, An approach for coordinated automatic voltage regulator–power system stabilizer design in large-scale interconnected power systems considering wind power penetration, *IET generation, transmission & distribution* 6 (1), 39-49, 2012.
115. H Bevrani, F Daneshfar, T Hiyama, A new intelligent agent-based AGC design with real-time application, *IEEE Transactions on Systems, Man, and Cybernetics, Part C*, 2012.
116. H Bevrani, F Habibi, P Babahajyani, M Watanabe, Y Mitani, Intelligent frequency control in an AC microgrid: Online PSO-based fuzzy tuning approach, *IEEE Transactions on smart grid* 3 (4), 1935-1944, 2012.
117. TH Mohamed, J Morel, H Bevrani, et. all, Decentralized model predictive-based load-frequency control in an interconnected power system concerning wind turbines, *IEEE transactions on electrical and electronic engineering* 7 (5), 487-494, 2012.

118. F Habibi, H Bevrani, J Moshtag, Designing a self-tuning frequency controller based on ANNs for an isolated microgrid, *Iranian Journal of Electrical and Computer Engineering* 10 (2), 88-95, 2012.
119. F Daneshfar, H Bevrani, Multiobjective design of load frequency control using genetic algorithms, *International Journal of Electrical Power & Energy Systems* 42 (1), 257-263, 2012.
120. TH Mohamed, J Morel, H Bevrani, T Hiyama, Model predictive based load frequency control_design concerning wind turbines, *International Journal of Electrical Power & Energy Systems* 43 (1), 859-867, 2012.
121. H Golpira, H Bevrani, H Golpîra, Effect of physical constraints on the AGC dynamic behaviour in an interconnected power system, *International Journal of Advanced Mechatronic Systems* 3 (2), 79-87, 2011.
122. AH Naghshbandy, S Shokoohi, H Bevrani, Application of Neuro-Fuzzy Controller on Voltage and Frequency Stability in Islanded Microgrids, *J. of Electric. Eng* 41 (2), 2011.
123. H Bevrani, T Hiyama, H Bevrani, Robust PID-based power system stabilizer: Design and real-time implementation, *International Journal of Electrical Power & Energy Systems* 33 (2), 179-188, 2011.
124. TH Mohamed, H Bevrani, AA Hassan, T Hiyama, Decentralized model predictive-based load frequency control in an interconnected power system, *Energy Conversion and Management* 52 (2), 1208-1214, 2011.
125. H Golpira, H Bevrani, Application of GA optimization for automatic generation control design in an interconnected power system, *Energy Conversion and Management* 52 (5), 2247-2255, 2011.
126. F Daneshfar, H Bevrani, F Mansoori, Load-frequency control: A GA-based Bayesian networks multi-agent system, *Iranian Journal of Electrical and Electronic Engineering* 7 (2), 141-148, 2011.
127. MH Dashtban, Z Dashtban, H Bevrani, A novel approach for vehicle license plate localization and recognition, *International Journal of Computer Applications* 26 (11), 22-30, 2011.
128. H Bevrani, PR Daneshmand, Fuzzy logic-based load-frequency control concerning high penetration of wind turbines, *IEEE Systems Journal* 6 (1), 173-180, 2011.
129. H Golpîra, H Bevrani, AH Naghshbandy, A survey on coordinated design of automatic voltage regulator and power system stabilizer, *International review of automatic control* 3 (2), 172-182, 2010.
130. MA Anuar, H Bevrani, T Hiyama, Regional coordination for under frequency load shedding, *Energy and Power Engineering* 2 (3), 148-153, 2010.
131. [H Bevrani, A Ghosh, G Ledwich, Renewable energy sources and frequency regulation: survey and new perspectives, *IET Renewable Power Generation* 4 (5), 438-457, 2010.
132. J Morel, H Bevrani, T Ishii, T Hiyama, A robust control approach for primary frequency regulation through variable speed wind turbines, *IEEE Transactions on Power and Energy* 130 (11), 1002-1009, 2010.
133. H Bevrani, T Hiyama, On load-frequency regulation with time delays: Design and real-time implementation, *IEEE Transactions on energy conversion* 24 (1), 292-300, 2009.
134. H Bevrani, G Ledwich, ZY Dong, JJ Ford, Regional frequency response analysis under normal and emergency conditions, *Electric Power Systems Research* 79 (5), 837-845, 2009.
135. H Bevrani, G Ledwich, JJ Ford, ZY Dong, On the feasibility of regional frequency-based emergency control plans, *Energy conversion and management* 50 (7), 1656-1663, 2009.
136. JJ Ford, H Bevrani, G Ledwich, Adaptive load shedding and regional protection, *International Journal of Electrical Power & Energy Systems* 31 (10), 611-618, 2009.
137. F Daneshfar, H Bevrani, Load-frequency control: a GA-based multi-agent reinforcement learning, *IET generation, transmission & distribution* 4 (1), 13-26, 2009.
138. H Bevrani, G Ledwich, J Ford, Z Dong, On power system frequency control in emergency conditions, *Journal of Electrical Engineering and Technology* 3 (4), 499-508, 2008.
139. H Bevrani, T Hiyama, Robust decentralised PI-based LFC design for time delay power systems, *Energy Conversion and Management* 49 (2), 193-204, 2008.
140. H Bevrani, T Hiyama, Y Mitani, Power system dynamic stability and voltage regulation enhancement using an optimal gain vector, *Control Engineering Practice* 16 (9), 1109-1119, 2008.

141. H Bevrani, T Hiyama, Robust coordinated AVR-PSS design using H^∞ static output feedback control, *IEEE Transactions on Power and Energy* 127 (1), 70-76, 2007.
142. H Bevrani, T Hiyama, Y Mitani, K Tsuji, Automatic generation control: A decentralized robust approach, *Intelligent Automation & Soft Computing* 13 (3), 273-287, 2007.
143. H Bevrani, T Hiyama, Multiobjective PI/PID control design using an iterative linear matrix inequalities algorithm, *International Journal of Control, Automation, and Systems* 5 (2), 117-127, 2007.
144. H Bevrani, T Hiyama, Robust load-frequency regulation: A real-time laboratory experiment, *Optimal Control Applications and Methods* 28 (6), 419-433, 2007.
145. H Bevrani, T Hiyama, Y Mitani, K Tsuji, M Teshnehlab, Load-frequency regulation under a bilateral LFC scheme using flexible neural networks, *Engineering Intelligent Systems* 14 (2), 109-117, 2006.
146. H Bevrani, T Hiyama, A robust solution for PI-based LFC problem with communication delays, *IEEE Transactions on Power and Energy* 125 (12), 1188-1193, 2005.
147. H Bevrani, Y Mitani, K Tsuji, H Bevrani, Bilateral-based robust load frequency control, *Energy conversion and management* 46 (7-8), 1129-1146, 2005.
148. H Bevrani, T Ise, Y Mitani, K Tsuji, A robust approach to controller design for DC-DC quasi-resonant converters, *IEEE Transactions on Industry Applications* 124 (1), 91-100, 2004.
149. H Bevrani, Y Mitani, K Tsuji, Robust AGC: Traditional structure versus restructured scheme, *IEEE Transactions on Power and Energy* 124 (5), 751-761, 2004.
150. H Bevrani, Y Mitani, K Tsuji, On robust load-frequency regulation in a restructured power system, *IEEE Transactions on Power and Energy* 124 (2), 190-198, 2004.
151. H Bevrani, Y Mitani, K Tsuji, Robust LFC in a deregulated environment: Multi-objective control approach, *IEEE Transactions on Power and Energy* 124 (12), 1409-1416, 2004.
152. H Bevrani, Y Mitani, K Tsuji, Sequential design of decentralized load frequency controllers using μ synthesis and analysis, *Energy conversion and management* 45 (6), 865-881, 2004.
153. H Bevrani, Y Mitani, K Tsuji, Robust decentralized load-frequency control using an iterative linear matrix inequalities algorithm, *IEEE Proceedings-Generation, Transmission and Distribution* 151 (3), 347-354, 2004.
154. H Bevrani, Y Mitani, K Tsuji, Robust decentralized AGC in a restructured power system, *Energy Conversion and Management* 45 (15-16), 2297-2312, 2004.

Publications: Conferences Papers

1. H Bevrani, On Equivalent Inertia of a Modern Power Grid, 2024 11th International Conference on Power and Energy Systems Engineering (CPESE), Nara, Japan, 2024
2. M. Karimi, S. Rehim, R. Mirzaei, H. Bevrani, Robust Optimal Damping Controller Tuning for A Generalized Virtual Synchronous Generator, 2024 10th International Conference on Control, Instrumentation and Automation (ICCIA), 2024
3. AM Naserkhani, S. Zaimi, R. Mirzaei, H. Bevrani, Microgrid Stability and Damping Improvement Using Virtual Synchronous Generator, 2024 10th International Conference on Control, Instrumentation and Automation (ICCIA), 2024
4. A Rafiee, Y Batmani, A Mehrizi-Sani, H Bevrani, Robust PID Controller Design for Frequency Regulation in AC Microgrids, 2024 IEEE Power & Energy Society General Meeting (PESGM), USA, 2024
5. M Nazari, N Rezaei, H Bevrani, Improving Power Grid Operational Resilience During A Tornado Disaster, 2024 32nd International Conference on Electrical Engineering (ICEE), 1-6, 2024
6. S. Rehim, H. Bevrani, Chiyori T. Urabe, and T. Kato; "Grid-Forming Converters Simulation and Control Using a High-Level Language: Exploring Julia's Potentials" 3rd International Conference on Computing, IoT and Data Analytics (ICCIDA), Shenyang University of Technology, Shenyang, China, 2024.

7. M. Raboosha, S. Rehim, H. Bevrani; "Frequency and Power Control of Interconnected Microgrids: An ANN-Based PI Tuning Approach" *The 14th International Smart Grids Conference, Smart Grids for the Sustainable Development and Environment (SGC)*, Tehran, Iran, 2024.
8. A. Fathi, S. Rehim, B. Baigzadeh, H. Bevrani; "Microgrid Decentralized Frequency Control Performance Improvement: An Optimal Fuzzy-LQR Approach" *The 14th International Smart Grids Conference, Smart Grids for the Sustainable Development and Environment (SGC)*, Tehran, Iran, 2024.
9. N. Fathollahi, S. Shazdeh, S. Rehim, H. Bevrani; "Robust Tuning of DC Microgrids Control System Virtual Parameters in Presence of Constant Power Load" *The 14th International Smart Grids Conference, Smart Grids for the Sustainable Development and Environment (SGC)*, Tehran, Iran, 2024.
10. A. Ghoreyshi, S. Rehim, S. Shazdeh, Y. Khayat, H. Bevrani; "Decentralized Robust Secondary Frequency Control in Autonomous Microgrids" *The 14th International Smart Grids Conference, Smart Grids for the Sustainable Development and Environment (SGC)*, Tehran, Iran, 2024.
11. S. Shazdeh, S. Rehim, H. Bevrani; "An Updated Frequency Response Model for Inverter-Based Resources Integrated Power Systems" *The 14th International Smart Grids Conference, Smart Grids for the Sustainable Development and Environment (SGC)*, Tehran, Iran, 2024.
12. R. Abdoli, S. Shazdeh, S. Rehim, H. Bevrani; "Tuning of Virtual Inertia Loop Parameters in DC Microgrids with Constant Power Loads using Model Predictive Control" *The 14th International Smart Grids Conference, Smart Grids for the Sustainable Development and Environment (SGC)*, Tehran, Iran, 2024.
13. H. Golpira, B. Francois, H. Bevrani, B. Marinesu, "Estimation of Aggregated Inertia Constant and Load Damping: A PMU-Based Analytical Approach," 23rd Power Systems Computation Conference (PSCC), Paris France, June 2024.
14. S Rehim, H Bevrani, C Urabe, T Kato, T Kato, Robust Tuning of Grid-Forming Converters Using Kharitonov Theorem, *Proceedings of International Conference on Applied Innovation in IT 11* (2 ...
15. S Shazdeh, Q Shafiee, H Bevrani, A Data-Driven-Based Wide-Area Protection Scheme for Fault Detection Using the Limited Measurements, *Proceedings of International Conference on Applied Innovation in IT 11* (2 ...
16. A Jafari, S Rehim, H Bevrani, Frequency Regulation Improvement in AC Microgrids: A Fuzzy-Based Extended Virtual Synchronous Generator Control, *2023 9th International Conference on Control, Instrumentation and Automation ...*
17. Y Batmani, Y Khayat, A Salimi, H Bevrani, S Mirsaedi, C Konstantinou, Sdre-based primary control of dc microgrids equipped by a fault detection/isolation mechanism, *Energy Reports* 8, 8215-8224
18. S Rehim, H Bevrani, CT Urabe, T Kato, Transient Response Enhancement in an AC Microgrid Using a Simple Two-Stage Controller, *2023 10th International Conference on Power and Energy Systems Engineering ...*
19. H Bevrani, An updated microgrid hierarchical control scheme, *2023 10th International Conference on Power and Energy Systems Engineering*
20. K Moradi, H Sheikahmadi, P Zamani, Q Shafiee, H Bevrani, A Data-driven PI Control of Grid-Connected Voltage Source Inverters Interfaced with LCL Filter, *2022 13th Power Electronics, Drive Systems, and Technologies Conference ...*
21. HH Abbas, H Bevrani, Q Shafie, Modeling and Simulation of 10 KW Solar Power Generator in a Microgrid System for Rural Area, *2022 8th International Engineering Conference on Sustainable Technology and ...*
22. K Sheida, M Nobari, B Baigzadehnoe, H Bevrani, An Artificial Bee Colony-based PID Controller for Depth Control of an Autonomous Underwater Vehicle, *2022 8th International Conference on Control, Instrumentation and Automation ...*
23. D Hosseini, M Naderi, Q Shafiee, M Savaghebi, H Bevrani, Virtual synchronous generator controller for power quality enhancement in microgrids, *2022 8th International Conference on Control, Instrumentation and Automation ...*
24. S Moslemimoghadam, Q Shafiee, M Naderi, H Bevrani, A hybrid fuzzy-predictive control for smooth transition between operating modes of voltage source inverters, *2022 8th International Conference on Control, Instrumentation and Automation ...*
25. A Karimi, A Ahmadi, Z Shahbazi, Q Shafiee, H Bevrani, A Resilient Control Method Against False Data Injection Attack in DC Microgrids, *2021 7th International Conference on Control, Instrumentation and Automation ...*

26. M Naderi, Y Khayat, Q Shafiee, T Dragicevic, H Bevrani, F Blaabjerg, Comprehensive small-signal modeling and Prony analysis-based validation of synchronous interconnected microgrids, *Energy Reports* 7, 6677-6689
27. H Bevrani, J Liu, T Kato, Robust Optimal Damping Control Design For Grid-Forming Converters, *2021 9th International Renewable and Sustainable Energy Conference (IRSEC)*, 1-6
28. A Atarodi, H Golpira, Y Batmani, H Bevrani, System Identification and Damping Controller Design Based on Wide-Area Phasor Measurements, *2020 28th Iranian Conference on Electrical Engineering (ICEE)*, 1-5
29. K Eguchi, A Shibata, Q Shafiee, H Bevrani, An inductor-less AC/DC converter using a bipolar cockcroft-walton multilier and a cross-coupled charge pump, *2020 3rd International Conference on Power and Energy Applications (ICPEA ...)*
30. K Eguchi, A Shibata, Q Shafiee, H Bevrani, A Hybrid-Type High Step-Down DC/DC Converter Using a Step-Down Cross-Connected Fibonacci Converter, *2020 3rd International Conference on Power and Energy Applications (ICPEA ...)*
31. K Eguchi, H Bevrani, Q Shafiee, A Shibata, F Asadi, A hybrid LED sink driver using a nesting-type switched-inductor/switched-capacitor buck-boost converter, *Energy Reports* 6, 82-86
32. K Eguchi, H Bevrani, Q Shafiee, W Do, F Asadi, Implementation of inductor-less 13-level inverter topology with a reduced number of the required component, *Energy Reports* 6, 38-42
33. H Bevrani, M Imanaka, T Kato, Grid dynamics shaping using flexible controlled power converters, *Energy Reports* 6, 1490-1495
34. Y Hirase, Y Ohara, H Bevrani, Virtual synchronous generator-based frequency control in interconnected microgrids, *Energy Reports* 6, 97-103
35. S Shazdeh, H Golpira, CL Bak, H Bevrani, A wide-area backup protection scheme for discrimination of symmetrical faults from power swing and load encroachment, *2020 10th Smart Grid Conference (SGC)*, 1-6
36. A Karimi, A Ahmadi, Z Shahbazi, H Bevrani, Q Shafiee, On the impact of cyber-attacks on distributed secondary control of DC microgrids, *2020 10th Smart Grid Conference (SGC)*, 1-6
37. H Golpîra, H Bevrani, Microgrids impact on power system frequency response, *Energy Procedia* 156, 417-424
38. Y Khayat, R Heydari, M Naderi, T Dragicevic, Q Shafiee, M Fathi, H Bevrani, Estimation-based consensus approach for decentralized frequency control of ac microgrids, *2019 21st European Conference on Power Electronics and Applications (EPE'19 ...)*
39. M Naderi, Y Khayat, R Heydari, M Novak, Q Shafiee, T Dragicevic, H Bevrani, Model validation of power electronics-based networked micro-grids by prony analysis, *2019 21st European Conference on Power Electronics and Applications (EPE'19 ...)*
40. M Naderi, Y Khayat, Q Shafiee, H Bevrani, R Heydari, T Dragicevic, Modeling and stability analysis of back-to-back converters in networked microgrids, *IECON 2019-45th Annual Conference of the IEEE Industrial Electronics Society ...*
41. S Amini, H Golpira, H Bevrani, Robust H₂ and H_∞ controller design for DC position motor control under uncertainties, *2019 6th International Conference on Control, Instrumentation and Automation ...*
42. S Rehim, R Mirzaei, H Bevrani, ANN-based frequency and tie-line power control in interconnected microgrids, *2019 6th International Conference on Control, Instrumentation and Automation ...*
43. N Mohammadi, K Mohammadi, H Bevrani, MTH Beheshti, H Golpîra, Decentralized Estimator-based Secondary Voltage and Reactive Power Control of an Islanded Microgrid, *2019 6th International Conference on Control, Instrumentation and Automation ...*
44. A Salimi, Y Batmani, H Bevrani, Model-based fault detection in DC microgrids, *2019 Smart grid conference (SGC)*, 1-6
45. S Rehim, R Mirzaei, H Bevrani, A Simplified Interconnected Microgrids Frequency Response Model Using Frequency Sensitivity Approach, *2019 Smart Grid Conference (SGC)*, 1-6
46. M Naderi, Y Khayat, S Rehim, Y Batmani, Q Shafiee, H Bevrani, Adaptive Backstepping Design for Stabilizing Synchronverter Control Topology in AC Microgrids, *2019 Smart Grid Conference (SGC)*, 1-6

47. S Rehim, R Mirzaei, H Bevrani, Interconnected microgrids frequency response model: An inertia-based approach, *Energy Reports* 6, 179-186
48. Y Khayat, M Naderi, Q Shafiee, M Fathi, H Bevrani, Robust single primary control loop for AC microgrids, *2018 9th Annual Power Electronics, Drives Systems and Technologies ...*
49. M Naderi, Y Khayat, Q Shafiee, H Bevrani, Modeling of voltage source converters in microgrids using equivalent thevenin circuit, *2018 9th Annual Power Electronics, Drives Systems and Technologies ...*
50. M Naderi, Y Khayat, Q Shafiee, H Bevrani, F Blaabjerg, Modeling of islanded microgrids using static and dynamic equivalent Thevenin circuits, *2018 20th European Conference on Power Electronics and Applications (EPE'18 ...*
51. Y Khayat, M Naderi, Q Shafiee, M Fathi, H Bevrani, T Dragicevic, Communication-less optimal frequency control of islanded microgrids, *2018 20th European Conference on Power Electronics and Applications (EPE'18 ...*
52. B Abdolmaleki, Q Shafiee, H Bevrani, Kron Reduction and L_2 -Stability for Plug-and-Play Frequency Control of Microgrids, *2018 Smart Grid Conference (SGC)*, 1-6
53. M Jami, Q Shafiee, H Bevrani, Dynamic performance improvement of DC microgrids using virtual impedance, *2018 Smart Grid Conference (SGC)*, 1-6
54. Z Karami, Q Shafiee, H Bevrani, Model predictive and sdre control of dc microgrids with constant power loads: A comparative study, *2018 Smart Grid Conference (SGC)*, 1-6
55. M Naderi, Y Khayat, Y Batmani, H Bevrani, Robust multivariable microgrid control synthesis and analysis, *Energy Procedia* 100, 375-387
56. Y Khayat, M Naderi, Q Shafiee, Y Batmani, M Fathi, H Bevrani, Robust control of a DC-DC boost converter: H_2 and H_∞ techniques, *2017 8th Power Electronics, Drive Systems & Technologies Conference (PEDSTC ...*
57. H Bevrani, Microgrid control: A solution for penetration of renewable power, *2017 International Conference on Green Energy and Applications (ICGEA)*, 46-51
58. Z Karami, Q Shafiee, Y Batmani, H Bevrani, On the Design of a Suboptimal Controller for DC microgrids with CPL, *Energy Procedia* 141, 611-618
59. H Bevrani, J Raisch, On virtual inertia application in power grid frequency control, *Energy Procedia* 141, 681-688
60. F Habibi, H Bevrani, Q Shafiee, Generalized droop characteristic-based Demand response and secondary frequency control coordination in an isolated microgrid, *2017 Smart Grid Conference (SGC)*, 1-7
61. A Karimi, Y Khayat, M Naderi, R Mirzaee, H Bevrani, Improving the transient performance of VSG-based microgrids by virtual FACTS' functions, *2017 Smart Grid Conference (SGC)*, 1-6
62. QSA Fathi, H Bevrani, Robust Frequency Control of Islanded Microgrids Using an Extended Virtual Synchronous Generator, *1st International Conference on New Research Achievements in Electrical and ...*
63. P Babahajiani, H Bevrani, Q Shafiee, Intelligent coordination of demand response and secondary frequency control in multi-area power systems, *1st IEEE Conference on New Research Achievements in Electrical and Computer ...*
64. S Ahmadi, D Nazarpour, Q Shafiee, H Bevrani, A fuzzy inference model for distributed secondary control of islanded microgrids, *2016 24th Iranian Conference on Electrical Engineering (ICEE)*, 1233-1238
65. X Yan, D Abbes, B Francois, H Bevrani, Day-ahead optimal operational and reserve power dispatching in a PV-based urban microgrid, *2016 18th European Conference on Power Electronics and Applications (EPE'16 ...*
66. S Ahmadi, H Bevrani, S Shokoohi, E Hasanii, An improved droop control for simultaneous voltage and frequency regulation in an AC microgrid using fuzzy logic, *2015 23rd Iranian Conference on Electrical Engineering*, 1486-1491
67. AG Tikdari, H Bevrani, M Rashidi-Nejad, M Montazeri, Locational Load Shedding Marginal Pricing, *2015 23rd Iranian Conference on Electrical Engineering*, 1522-1526
68. R Khezri, H Bevrani, AVR and PSS coordinated based fuzzy approach for transient stability enhancement, *2015 23rd Iranian Conference on Electrical Engineering*, 1659-1664
69. S Ataee, R Khezri, MR Feizi, H Bevrani, Impacts of wind and conventional power coordination on the short-term frequency performance, *2015 23rd Iranian Conference on Electrical Engineering*, 1527-1532

70. P Farhadi, M Navidi, M Gheydi, M Pazhoohesh, H Bevrani, Online selective harmonic minimization for cascaded Half-bridge multilevel inverter using artificial neural network, *2015 Intl Aegean Conference on Electrical Machines & Power Electronics*
71. R Khezri, S Shokoohi, S Golshannavaz, H Bevrani, Intelligent over-current protection scheme in inverter-based microgrids, *2015 Smart Grid Conference (SGC)*, 53-59
72. N Hajimohamadi, H Bevrani, On load shedding in microgrids, *18th Electric Power Distribution Conference*, 1-7
73. R Khezri, H Bevrani, Fuzzy-based coordinated control design for AVR and PSS in multi-machine power systems, *2013 13th Iranian Conference on Fuzzy Systems (IFSC)*, 1-5
74. S Shokoohi, H Bevrani, PSO-based droop control of inverter interfaced distributed generations, *2013 Smart Grid Conference (SGC)*, 204-209
75. S Shokoohi, H Bevrani, AH Naghshbandy, Application of neuro-fuzzy controller on voltage and frequency stability in islanded microgrids, *2013 Smart Grid Conference (SGC)*, 189-194
76. S Shokoohi, F Sabori, H Bevrani, Secondary voltage and frequency control in islanded microgrids: online ANN tuning approach, *2014 Smart Grid Conference (SGC)*, 1-6
77. H Bevrani, On the future of robust control in smart grids, *2014 Smart Grid Conference (SGC)*, 1-2
78. S Ataee, R Khezri, MR Feizi, H Bevrani, Investigating the impacts of wind power contribution on the short-term frequency performance, *2014 Smart Grid Conference (SGC)*, 1-6
79. F Dalvand, A Kalantar, S Shokoohi, H Bevrani, Time-domain bearing condition monitoring in induction motors using instantaneous frequency of motor voltage, *2014 Smart Grid Conference (SGC)*, 1-7
80. F Daneshfar, F Mansoori, H Bevrani, Multi-agent reinforcement learning design of load-frequency control with frequency bias estimation, *The 2nd International Conference on Control, Instrumentation and Automation*
81. F Daneshfar, H Bevrani, F Mansoori, Bayesian networks design of load-frequency control based on GA, *The 2nd international conference on control, instrumentation and automation*
82. H Bevrani, Engineering Education System in Japan: Observations in Study, Teaching, and Research, *First Engineering Education Conference, Iraq: University of Duhok*
83. F Daneshfar, H Bevrani, A new intelligent LFC design in a deregulated environment, *20th Iranian Conf. on Electrical Engineering ICEE-2012, Tehran, Iran*
84. S Shokoohi, J Moshtagh, H Bevrani, Transient stability enhancement in microgrids with iinverter-based dgs, *2nd Iranian Conf. Smart Grids-ICSG 2012*
85. S Ahmadi, H Bevrani, H Jannaty, A fuzzy inference model for short-term load forecasting, *2012 Second Iranian Conference on Renewable Energy and Distributed*
86. F Daneshfar, H Bevrani, An optimization method for LFC design in restructured power systems, *20th Iranian Conference on Electrical Engineering (ICEE2012)*, 879-883
87. Q Shafiee, A Morattab, H Bevrani, Decentralized model predictive load-frequency control for multi-area interconnected power systems, *2011 19th Iranian Conference on Electrical Engineering*, 1-6
88. H Bevrani, AG Tikdari, Power system stability analysis based on descriptive study of electrical indices, *ASIJ 5th Scientific Conference*, 3
89. H Bevrani, P Babahajyani, F Habibi, T Hiyama, Robust control design and implementation for a quadratic buck converter, *The 2010 International Power Electronics Conference-ECCE ASIA-*, 99-103
90. H Golpîra, H Bevrani, Application of GA optimization for automatic generation control in realistic interconnected power systems, *Proceedings of the 2010 International Conference on Modelling*
91. H Bevrani, AG Tikdari, T Hiyama, An intelligent based power system load shedding design using voltage and frequency information, *Proceedings of the 2010 International Conference on Modelling*
92. H Bevrani, F Daneshfar, PR Daneshmand, Intelligent automatic generation control: Multi-agent Bayesian networks approach, *2010 IEEE International Symposium on Intelligent Control*, 773-778
93. H Bevrani, F Daneshfar, PR Daneshmand, T Hiyama, Reinforcement learning based multi-agent LFC design concerning the integration of wind farms, *2010 IEEE International Conference on Control Applications*, 567-571

94. H Bevrani, S Shokoohi, Robust stabilizer feedback loop design for a radio-frequency amplifier, *2010 IEEE International Conference on Control Applications*, 2250-2255
95. H Bevrani, T Hiyama, Robust design of power system stabilizer: an LMI approach, *The IASTED International Conference on Energy and Power Systems (EPS)*, 70-75
96. H Bevrani, T Hiyama, On robust control of fixed pattern power rectifiers, *The Nordic Workshop on Power and Industrial Electronics (NORPIE)*
97. H Bevrani, T Hiyama, An ILMI-Based Solution for Robust Tuning of PI and PID Controllers, *14th Iranian Conference on Electrical Engineering (ICEE)*
98. H Bevrani, G Ledwich, JJ Ford, On the use of df/dt in power system emergency control, *2009 IEEE/PES Power Systems Conference and Exposition*, 1-6
99. F Daneshfar, J RavanJamJah, F Mansoori, H Bevrani, BZ Azami, Adaptive fuzzy urban traffic flow control using a cooperative multi-agent system based on two stage fuzzy clustering, *VTC Spring 2009-IEEE 69th Vehicular Technology Conference*, 1-5
100. H Bevrani, T Hiyama, Multiobjective control-based robust PSS design, *National Convention Record IEE Japan 2006*, 10-11
101. H Bevrani, T Hiyama, An Effective Trade-off Between Stability and Voltage Regulation, *Annual Conference of Power & Energy Society. IEE of Japan*, 17-22
102. H Bevrani, T Hiyama, A real-time nonlinear simulation for robust LFC, *Annual Conference of Power & Energy Society. IEE of Japan*, 3-4
103. H Bevrani, Y Mitani, K Tsuji, Robust LFC design using mixed H_2/H_{∞} technique, *International Conference on Electrical Engineering (ICEE) 2004*
104. H Bevrani, Y Mitani, K Tsuji, Decentralized robust load-frequency control: A PI-based approach, *International Conference on Electrical Engineering (ICEE) 2004*
105. H Bevrani, Y Mitani, K Tsuji, An LFC model for competitive power system markets, *National Convention Record IEE Japan 2004*, 39-40
106. H Bevrani, Y Mitani, K Tsuji, Decentralized robust load-frequency control: A PI-based control approach, *Proc. of Int. Conf. on Electrical Eng.(ICEE), Japan*
107. H Bevrani, Y Mitani, K Tsuji, Robust decentralized LFC design in a deregulated environment, *2004 IEEE International Conference on Electric Utility Deregulation*
108. H Bevrani, Y Mitani, K Tsuji, Robust decentralised load-frequency control using an iterative linear matrix inequalities algorithm, *IEE Proceedings-Generation, Transmission and Distribution* 151 (3), 347-354
109. H Bevrani, T Ise, Y Mitani, K Tsuji, DC-DC quasi-resonant converters: linear robust control, *2004 IEEE International Symposium on Industrial Electronics 2*, 863-868
110. H Bevrani, Y Mitani, K Tsuji, PI-based multi-objective load-frequency control in a restructured power system, *SICE 2004 Annual Conference 2*, 1745-1750
111. H Bevrani, Y Mitani, K Tsuji, Robust AGC in a competitive environment, *39th International Universities Power Engineering Conference*, 2004. UPEC
112. H Bevrani, T Hiyama, PI/PID based multi-objective control design: an ILMI approach, *Proceedings. 2005 IEEE Networking, Sensing and Control*, 2005., 750-755
113. H Bevrani, T Hiyama, A control strategy for LFC design with communication delays, *2005 International Power Engineering Conference*, 1087-1092
114. H Bevrani, T Hiyama, Robust load-frequency control design for time delay power systems, *Proc. of 9th Multi-Conf. on Systemics, Cybernetics and Informatics*
115. H Bevrani, T Hiyama, Robust tuning of PI/PID controllers using H_{∞} control technique, *4th International Conference of System Identification and Control Problems*
116. H Bevrani, T Hiyama, Bilateral-based LFC analysis using a modified conventional model, *Proceedings 13th Iranian Conference on Electrical Engineering (ICEE)*

117. H Bevrani, T Hiyama, On market-based robust load-frequency control, *20th International Power System Conference (PSC)*
118. H Bevrani, Y Mitani, K Tsuji, On robust load frequency regulation in a new multi-machine power system structure, *2003 National Convention Record IEE Japan*, 2888-289
119. H Bevrani, Y Mitani, K Tsuji, Robust load frequency regulation in a new distributed generation environment, *2003 IEEE Power Engineering Society General Meeting* (IEEE Cat. No. 03CH37491)
120. H Bevrani, Y Mitani, K Tsuji, A scenario on load-frequency controller design in a deregulated power system, *SICE 2003 Annual Conference* (IEEE Cat. No. 03TH8734) 3, 3148-3153
121. H Bevrani, Y Mitani, K Tsuji, Sequential decentralized design of robust load frequency controllers in multiarea power systems, *IFAC Proceedings Volumes* 36 (20), 109-114
122. H Bevrani, Robust control design for resonant converters, *Proc. of IEEE on Industrial Electronics (IECON)*, Spain (2002)
123. H Bevrani, Y Mitani, K Tsuji, Robust control design for a ZCS converter, *IEEE 2002 28th Annual Conference of the Industrial Electronics Society*
124. M Abrishamchian, Nonlinear and robust control of DC-DC switching regulators, *3rd Asia-Pacific Conf. on Control and Measurement (APCCM)*, China (1999)
125. H Bevrani, M Abrishamchian, N Safari-shad, Linear robust control of switching power converters, *7th Iranian Conf. on Electrical Engineering* (in Persian), Iran
126. H Bevrani, Reduced μ -based load frequency controller in a deregulated power system environment, *14th International Power System Conference (PSC)*
127. H Bevrani, Reduced PI-based Load Frequency Control in a Deregulated Environment, *13th. Int. Power System Conf*, Tehran, Iran
128. H Bevrani, Robust load frequency controller in a deregulated environment: A/spl mu/-synthesis approach, *Proceedings of the 1999 IEEE international conference on control*
129. H Bevrani, M Abrishamchian, N Safari-Shad, Nonlinear and linear robust control of switching power converters, *Proceedings of the 1999 IEEE International Conference on Control*
130. H Bevrani, M Teshnehlalab, H Bevrani, Load frequency controller design in a deregulated environment using flexible neural networks, *15th International Power System Conference PSC*, 1-6
131. H Bevrani, Y Mitani, K Tsuji, Robust low-order load frequency controller in a deregulated environment, *5th Asia-Pacific Conference on Control and Measurement (APCCM)*
132. H Bevrani, Transient stability enhancement and voltage regulation of power system using I/O feedback linearization technique, *12th International Power System Conference-PSC*, 85-96
133. M Teshnelab, N Safari-Shad, H Bevrani, Control of DC-DC switching regulators using artificial neural networks, *5th Iranian Conference on Electrical Engineering ICEE-97*, 123-130

o Last update: June 5, 2025