

Curriculum Vitae
Rahmatollah Khezri

PERSONAL INFORMATION

Birth: 25/01/1989, Oshnavieh, Iran **Gender:** Male **Marital Status:** Married
Linkedin: <https://www.linkedin.com/in/rahmat-khezri-062814174/>
Google Scholar: <https://scholar.google.com/citations?user=F9iS8kcAAAAJ&hl=en>
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TOPICS OF INTEREST

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- Optimal planning and operation
 - Smart grid and intelligent control
 - Renewable energy
 - Energy storage systems
 - Power system stability
 - Load frequency control

WORKING EXPERIENCE

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- **Postdoctoral Researcher** at Chalmers University of Technology, Sweden, Feb. 2022 – Dec. 2023
Project: Vehicle to everything – Mobility with added services (V2X-MAS)
 - **Casual Academic** at Flinders University, Australia, Jul. 2018 – Jul. 2019, Jun. 2021 – Dec. 2021

EDUCATION

Mar 2018 – Nov 2021:

Ph.D.: College of Science and Engineering, **Flinders University, Australia.**

Dissertation title: Optimal Sizing of Distributed Renewable and Battery Storage Systems for Australian Residential Consumers

Principal Supervisor: Dr. Amin Mahmoudi, Flinders University

Adjunct Supervisor: Ass. Prof. Mohammed H. Haque, University of South Australia

Adjunct Supervisor: Ass. Prof. Nesimi Ertugrul, University of Adelaide

Jan 2021 – May 2021:

Visiting PhD student at **Department of Engineering - Electrical and Computer Engineering, Edison, Aarhus University, Aarhus, Denmark**

Summary of project: - OPAL-RT and dSPACE implementation to validate the experimental results
- **Machine learning** algorithms for microgrid planning

Nov 2019 – Nov 2020:

Research fellow and visiting PhD student at **Energy Systems Lab, Faculty of Engineering, Information and Systems, University of Tsukuba, Tsukuba, Japan**

Summary of project: Practical operational planning of residential microgrids

Sep 2011 – Jan 2014:

M.Sc.: Electrical Power Engineering, Sept. 2011 to Jan. 2014, University of Kurdistan, Sanandaj, Iran

Thesis Topic: Stability enhancement in large-scale power system considering high penetration of wind turbines

Supervisor: Prof. Hassan Bevrani

Sep 2007 – Sep 2011:

B.Sc.: Electrical Power Engineering, Sept. 2007 to Jan. 2011, Urmia University, West Azarbyegan, Iran

HONORS AND AWARDS

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- The Australian Government Research Training Program Scholarship, approximately \$ 250,000 March 2018.

- Mawon Lake Fellowship Program (MLFP) to undertake 6-month research studies at University of Tsukuba, \$ 18,600, Japan (2019).
- South Australian Fresh Scientist for 2019.
- Flinders University Higher Degree by Research Virtual Conference Support Award, \$300 (2021).
- Awarded Marie Curie Master Class Package 2021 from Aarhus University in Denmark.

GRANTS

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- Starter grant for research collaboration, Mawson Lake Fellowship Program, 2021, \$20,000.
 - Marie Curie Fellowship Grant, Denmark, Applied in September 2021.

TEACHING EXPERIENCES

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- **Flinders University, Australia (Casual Academic July 2018 – July -2019, Semester-2 2021)**
 - ✓ Lecturer: Renewable Energy (2021)
 - ✓ Lab Demonstrator: Electric Power Systems (2019), Power Electronic (2018), Renewable Energy (2018), Mathematic Fundamentals (2018)
 - ✓ Tutor: Engineering Mathematics (2019)
 - ✓ Study Support for Mathematics (2019), (2018)
 - **Islamic Azad University, Iran – (Lecturer)**
 - ✓ AC Electrical Machinery (Fall 2015 and 2016), DC Electrical Machinery (Fall 2015 and 2016), Basics in Electrical Circuits (Fall 2016), Industrial Electronic (Fall 2016), General Electronic (Fall 2016), AC Electrical Circuits (Fall 2016)

PUBLICATIONS

Citation Records (Scopus)

Total Citation: 691, **H-Index:** 16, **i10-index:** 27

Book Chapters

- B1. **R. Khezri**, A. Mahmoudi, and H. Aki, “Intelligent Demand Response in Microgrid Planning,” Chapter 9 in *Intelligent Data Mining and Analysis in Power and Energy Systems*, **Wiley/IEEE Publisher**, 2021.
- B2. **R. Khezri** and A. Mahmoudi, “Optimal Energy Management Strategies for Integrating Renewable Sources and EVs in Micro-Grids with EVs,” Chapter 9, in *Cable Based and Wireless Charging Systems for Electric Vehicles: Technology, Control, Management & Grid Integration*, **IET Publisher**, UK, 2021. (https://digital-library.theiet.org/content/books/10.1049/pbtr032e_ch9)
- B3. **R. Khezri**, A. Mahmoudi, and M.H. Khooban, “Microgrids Planning for Electrification of Residential in Rural Areas,” Chapter 1 in *Residential Microgrids and Rural Electrifications*, **Elsevier**, 2021. (<https://www.elsevier.com/books/residential-microgrids-and-rural-electrifications/padmanaban/978-0-323-90177-2>)
- B4. K. Jalilpoor, **R. Khezri**, A. Mahmoudi, and A. Oshnoei, “Optimal Sizing of Energy Storage System,” Chapter 8, in *Variability, Scalability, and Stability of Microgrids* by S. M Muyeen, Syed Islam, and Frede Blaabjerg, **IET Publisher**, UK, June 2019, pp. 263–289. (https://digital-library.theiet.org/content/books/10.1049/pbpo139e_ch8)

IEEE / IET Journal Publications

- J1. **R. Khezri**, A. Mahmoudi, and M. Haque, “Impact of Optimal Sizing of Wind Turbine and Battery Energy Storage for a Grid-Connected Household With/Without an Electric Vehicle,” *IEEE Transactions on Industrial Informatics*, 2022. (<https://ieeexplore.ieee.org/abstract/document/9668994>)
- J2. **R. Khezri**, A. Mahmoudi, and H. Aki, “Resiliency-Oriented Capacity Optimization of Renewable Resources and Battery Storage,” *IEEE Transactions on Industry Applications*, 2022. (<https://ieeexplore.ieee.org/abstract/document/9640481>)
- J3. A. Mohammad-Alikhani, A. Mahmoudi, **R. Khezri**, and S. Kahourzadeh, “Multi-Objective Optimization of System Configuration and Component Capacity in an AC Mini-grid Hybrid Power System,” *IEEE Trans. Industry Applications*, 2022.

- J4. **R. Khezri**, A. Mahmoudi, and M. Haque, "A Demand Side Management Approach for Optimal Sizing of Standalone Renewable-Battery Systems," *IEEE Transactions on Sustainable Energy*, vol. 12, no. 4, pp. 2184-2194, Oct. 2021. (<https://ieeexplore.ieee.org/abstract/document/9442868>)
- J5. **R. Khezri**, A. Mahmoudi, and M. Haque, "Optimal Capacity of Solar PV and Battery Storage for Australian Grid-Connected Households," *IEEE Transactions on Industry Applications*, Sep-Oct 2020. (<https://ieeexplore.ieee.org/abstract/document/9103996>)
- J6. A. Oshnoei, M. Kheradmandi, **R. Khezri**, and A. Mahmoudi, "Robust Model Predictive Control of Gate-Controlled Series Capacitor for LFC of Power Systems," *IEEE Transactions on Industrial Informatics*, April 2021. (<https://ieeexplore.ieee.org/abstract/document/9169773>)
- J7. X. Pan, **R. Khezri**, A. Mahmoudi, and SM Muyeen, "Solar PV and Battery Storage Capacity Optimization with Energy Management Systems for Time-of-Use and Flat Electricity Tariffs Electric Power Systems Research," *IET Renewable Power Generation*, 2022. (<https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/rpg2.12433>)
- J8. **R. Khezri**, and A. Mahmoudi, "Review on the State-of-the-Art Multi-objective Optimization of Hybrid Standalone/Grid-Connected Energy Systems," *IET Generation Transmission and Distribution*, 2020. (<https://digital-library.theiet.org/content/journals/10.1049/iet-gtd.2020.0453>)
- J9. **R. Khezri**, A. Oshnoei, A. M. Yazdani, and A. Mahmoudi, "Intelligent Coordinators for Automatic Voltage Regulator and Power System Stabilizer in a Multi-Machine Power System," *IET Generation Transmission and Distribution*, 2020. (<https://digital-library.theiet.org/content/journals/10.1049/iet-gtd.2020.0504>)
- J10. S. Merrington, **R. Khezri**, and A. Mahmoudi, "Optimal Planning of Solar Photovoltaic and Battery Storage for Electric Vehicle Owner Households with Time-of-Use Tariff," *IET Generation, Transmission, & Distribution*, Accepted for publication, 2022. (https://researchnow-admin.flinders.edu.au/ws/portalfiles/portal/48120602/Merrington_Optimal_P2021.pdf)
- J11. M. Combe, A. Mahmoudi, M. Haque, **R. Khezri**, "Optimal Sizing of an AC-Coupled Hybrid Power System Considering Incentive-based Demand Response," *IET Generation Transmission and Distribution*, 2019. (<https://digital-library.theiet.org/content/journals/10.1049/iet-gtd.2018.7055>)
- J12. O. Sadeghian, A. Oshnoei, **R. Khezri**, and M.T. Hagh, "A Data Clustering-based Approach for Optimal Capacitor Allocation in Distribution Systems Including Wind Farms," *IET Generation Transmission and Distribution*, 2019. (<https://digital-library.theiet.org/content/journals/10.1049/iet-gtd.2018.6326>)
- J13. M. Combe, A. Mahmoudi, M. Haque, **R. Khezri**, "Cost Effective Sizing of an AC Mini-grid Hybrid Power System for a Remote Area in South Australia," *IET Generation Transmission and Distribution*, vol. 13, iss. 2, pp. 277-287, 2019. (<https://researchnow.flinders.edu.au/en/publications/cost-effective-sizing-of-an-ac-mini-grid-hybrid-power-system-for->)

Other Journal Publications

- J14. **R. Khezri**, A. Mahmoudi, and H. Aki, "Optimal Sizing of Solar Photovoltaic and Battery Storage Systems for Grid-connected Residential Sector: Review, Challenges and New Perspectives," *Renewable and Sustainable Energy Review*, 2022. (<https://www.sciencedirect.com/science/article/pii/S1364032121010339?dgcid=author>)
- J15. H. Sorouri, M. Sedighzadeh, A. Oshnoei, and **R. Khezri**, "An Intelligent Adaptive Control of DC-DC Power Buck Converters," *International Journal of Electrical Power and Energy Systems*, 2022.
- J16. G. A. R. Cardenas, **R. Khezri**, A. Mahmoudi, and S. Kahourzadeh, "Optimal Planning of Remote Microgrids with Multi-Size Split-Diesel Generators," *Sustainability*, vol. 14, iss. 5, pp. 2892, 2022.
- J17. S. Bahramara, S. Shahrokhi, P. Sheikhamadi, **R. Khezri**, and S.M. Muyeen, "Modeling the Risk-based Decisions of the Microgrid in Day-Ahead Energy and Reserve Markets Considering Stochastic Dispatching of Electrical and Thermal Energy Storages," *Energy Conversion and Management: X*, pp. 100201, 2022.
- J18. R. Saki, E. Kianmehr, E. Rokrok, M. Doostizadeh, **R. Khezri**, and M. Shafie-khah, "Interactive Multi-level planning for energy management in clustered microgrids considering flexible demands," *International Journal of Electrical Power and Energy Systems*, 2022. (<https://www.sciencedirect.com/science/article/pii/S0142061522000254?via%3Dihub>)
- J19. M. Fathi, **R. Khezri**, A. M. Yazdani, and A. Mahmoudi, "Comparative Study of Metaheuristic Algorithms for Optimal Sizing of Standalone Microgrids in a Remote Area Community," *Neural Computing and Applications*, 2021. (<https://link.springer.com/article/10.1007/s00521-021-06165-6>)
- J20. **R. Khezri**, A. Mahmoudi, H. Aki, and SM Muyeen, "Optimal Planning of Remote Area Electricity Supply System: Comprehensive Review, Recent Developments and Future Scopes," *Energies*, 2021. (<https://www.mdpi.com/1996-1073/14/18/5900>)
- J21. X. Pan, **R. Khezri**, A. Mahmoudi, A. Yazdani, GM Shafiullah, "Energy Management Systems for Grid-Connected Houses with Solar PV and Battery by Considering Flat and Time-of-Use Electricity Rates," *Energies*, 2021. (<https://www.mdpi.com/1996-1073/14/16/5028>)

- J22. I. Javeed, **R. Khezri**, A. Mahmoudi, A. Yazdani, GM Shafiullah, "Optimal Sizing of Rooftop PV and Battery Storage for Grid-Connected Houses Considering Flat and Time-of-Use Electricity Rates," *Energies*, 2021. (<https://www.mdpi.com/1996-1073/14/12/3520>)
- J23. M. Combe, A. Mahmoudi, M. Haque, **R. Khezri**, "AC-Coupled Hybrid Power System Optimisation for an Australian Remote Community," *International Transactions on Electrical Energy Systems*, 2020. (<https://onlinelibrary.wiley.com/doi/abs/10.1002/2050-7038.12503>)
- J24. O. Sadeghian, A. Oshnoei, **R. Khezri**, and S.M. Muyeen, "Risk-constrained stochastic optimal allocation of energy storage system in virtual power plants," *Journal of Energy Storage*, 2020. (<https://www.sciencedirect.com/science/article/abs/pii/S2352152X20315693>)
- J25. O. Sadeghian, A. Oshnoei, M. Kheradmandi, **R. Khezri**, and B. Mohammadi Ivatloo, "A Robust Data Clustering Method for Probabilistic Load Flow in Radial Distribution Networks," *International Journal of Electrical Power and Energy Systems*, 2020. (<https://www.sciencedirect.com/science/article/abs/pii/S0142061519308191>)
- J26. O. Sadeghian, A. Oshnoei, M. T. Haque, and **R. Khezri**, "A Clustering-Based Techno-Economic Analysis for Wind Farm and Shunt Capacitor Allocation in Radial Distribution Systems," *International Transactions on Electrical Energy Systems*, 2021. (<https://onlinelibrary.wiley.com/doi/abs/10.1002/2050-7038.12708>)
- J27. M. Moradian, **R. Khezri**, and A. Mahmoudi, "Performance Investigation of Stand-Alone Hybrid Wind-Solar Home-Microgrids with Battery Storage System," *Smart Sciences*, 2019. (<https://www.tandfonline.com/doi/abs/10.1080/23080477.2019.1658421>)
- J28. **R. Khezri**, A. Oshnoei, H. Bevrani, and SM Muyeen, "An Intelligent Coordinator Design for GCSC and AGC in Hybrid Multi-area Power Systems," *Applied Soft Computing*, vol. 76, pp. 491-504, 2019. (<https://www.sciencedirect.com/science/article/abs/pii/S1568494618307154>)
- J29. A. Oshnoei, **R. Khezri**, and SM Muyeen, "Model Predictive-Based Secondary Frequency Control Considering Heat Pump Water Heaters," *Energies*, vol. 12, 2019. (<https://www.mdpi.com/1996-1073/12/3/411>)
- J30. A. Oshnoei, **R. Khezri**, S.M. Muyeen, S. Oshnoei, and F. Blaabjerg, "Automatic Generation Control Incorporating Electric Vehicles," *Electric Power Components and Systems*, 2019. (<https://www.tandfonline.com/doi/abs/10.1080/15325008.2019.1579270>)
- J31. **R. Khezri**, S. Golshannavaz, Sh. Shokoohi, and H. Bevrani, "Toward Transient Stability Enhancement in Inverter-based Microgrids," *Neural Computing and Applications*, vol. 30, is. 9, pp. 2709-2723, 2018. (<https://link.springer.com/article/10.1007/s00521-017-2859-1>)
- J32. S. Golshannavaz, **R. Khezri**, M. Esmaeeli, and P.L. Siano, "A Two-Stage Robust-Intelligent Controller Design for Efficient LFC based on Kharitonov Theorem and Fuzzy Logic" *Journal of Ambient Intelligence and Humanized Computing*, vol. 9, iss. 5, pp. 1445-1454, 2018. (<https://link.springer.com/article/10.1007/s12652-017-0569-2>)
- J33. S. Shokoohi, S. Golshannavaz, **R. Khezri** and H. Bevrani, "Intelligent secondary Control in Smart Microgrids: An Online Coordinated Approach for Islanded Operations," *Optimization and Engineering*, vol. 19, iss. 4, pp. 917-936, 2018. (<https://link.springer.com/article/10.1007/s11081-018-9382-9>)
- J34. A. Oshnoei, **R. Khezri**, K. Techato, SM Muyeen, and O. Sadeghian "Direct Probabilistic Load Flow in Radial Distribution Systems Containing Wind Farms: An Approach Based-on Data Clustering," *Energies*, vol. 11, iss. 2, 2018. (<https://www.mdpi.com/1996-1073/11/2/310>)
- J35. **R. Khezri**, A. Oshnoei, M.T. Hagh, and S.M. Muyeen, "Coordination of Heat Pumps, Electric Vehicles and AGC for Efficient LFC in a Smart Hybrid Power System via SCA-Based Optimized FOPID Controllers," *Energies*, vol. 11, iss. 2, 2018. (<https://www.mdpi.com/1996-1073/11/2/420>)
- J36. **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*, 2018. (<https://www.tandfonline.com/doi/abs/10.1080/15325008.2018.1485790>)
- J37. A. Oshnoei, **R. Khezri**, S.M. Muyeen, and F. Blaabjerg, "On the Contribution of Large-scale DFIG Wind Farms in Automatic Generation Control: Review and New Control Approach," *Applied Science*, vol. 8, iss. 10, 2018. (<https://www.mdpi.com/2076-3417/8/10/1848>)
- J38. **R. Khezri**, S. Golshannavaz, R. Vakili, and B. Memar-Esfahani "Multi-Layer Fuzzy-Based Under-Frequency Load Shedding in Back-Pressure Smart Industrial Microgrids," *Energy*, vol. 132, pp. 96-105, 2017. (<https://www.sciencedirect.com/science/article/abs/pii/S0360544217308149>)
- J39. H. Hamed, **R. Khezri**, S. Golshannavaz, and B. Ershadifard, "Efficient voltage Control in Proton Exchange Membrane Fuel Cell Based-on Bacterial Foraging Algorithm" *IETE Journal of Research*, vol. 63, iss. 2, 2017. (<https://www.tandfonline.com/doi/abs/10.1080/03772063.2016.1257375>)
- J40. **R. Khezri**, S. Golshannavaz, Sh. Shokoohi, and H. Bevrani, "Fuzzy Logic Based Fine-Tuning of PI Parameters for Robust Load Frequency Control in a Multi-area Power System," *Electric Power Components and Systems*, vol. 44, issue 18, 2016. (<https://www.tandfonline.com/doi/abs/10.1080/15325008.2016.1210265>)

- J41. **R. Khezri** and 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 and Energy Systems*, vol. 73, pp. 400–410, 2015. (<https://www.sciencedirect.com/science/article/abs/pii/S0142061515002197>)
- J42. **R. Khezri** and H. Bevrani, "Stability Enhancement in Multi-machine Power Systems by Fuzzy-based Coordinated AVR-PSS," *International Journal of Energy Optimization and Engineering*, vol. 4, iss. 2, 2015. (<https://www.igi-global.com/article/stability-enhancement-in-multi-machine-power-systems-by-fuzzy-based-coordinated-avr-pss/128231>)

Submitted Journals

- J43. **R. Khezri**, P. Razmi, A. Mahmoudi, A. Bidram, and M.H. Khooban, "Machine Learning-based Planning of Grid-Connected Homes with Fast-Charging Plug-in Electric Vehicle," *IEEE Transactions on Smart Grid*, 2022.
- J44. **R. Khezri**, S. Bahramara, and A. Mahmoudi, "Cloud Energy Storage in Power Systems: A Literature Survey and Future Perspectives," *IET Generation Transmission and Distribution*, 2021.
- J45. **R. Khezri**, S. Bahramara, and A. Mahmoudi, "Optimal Sizing and Robust Feasibility Analysis of Cloud Battery Energy Storage for a Residential Community," *IEEE Transactions on Sustainable Energy*, 2022.
- J46. **R. Khezri**, A. Mahmoudi, and H. Aki, "Optimal Design Framework for a Residential Grid-connected Renewable-Battery System," *IEEE Trans. Industry Applications*, 2021.
- J47. **R. Khezri**, A. Mahmoudi, and D. Whaley, "Comparative Study of Rooftop PV and Battery for Grid-Connected Households with All-Electricity and Gas-Electricity Utility in Australia," *Energy*, 2021.
- J48. S. Merrington, **R. Khezri**, and A. Mahmoudi, "Optimal Sizing of Rooftop Solar PV and Battery Energy Storage for Grid-Connected Households with Electric Vehicles," *Electric Power Systems Research*, 2021.

Conference Papers

- C1. **R. Khezri**, A. Mahmoudi, N. Ertugrul, M. F. Shaaban, and A. Bidram, "Battery Lifetime Modelling in Planning Studies of Microgrids: A Review," *2021 Australasian Universities Power Engineering Conference (AUPEC 2021)*, Perth, Australia, 2021.
- C2. **R. Khezri**, A. Mahmoudi, M.H. Haque, and K. Khalilpour, "Energy Management and Optimal Planning of a Residential Microgrid with Time-of-Use Electricity Tariffs," in *Proc. 2021 IEEE Energy Convers. Cong. Expo.*, Vancouver, Canada, 2021.
- C3. **R. Khezri**, A. Mahmoudi, M.H. Khooban, and N. Ertugrul, "Optimal Sizing of Grid-tied Residential Microgrids Under Real-Time Pricing," in *Proc. 2021 IEEE Energy Convers. Cong. Expo.*, Vancouver, Canada, 2021.
- C4. **R. Khezri**, A. Mahmoudi, and H. Aki, "Multi-Objective Optimization of Solar PV and Battery Storage System for A Grid-Connected Household," in *Proc. 2020 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, India, 2020. (<https://ieeexplore.ieee.org/abstract/document/9379481>)
- C5. **R. Khezri**, A. Mahmoudi, and M. Haque, "A Comparative Study of Optimal Battery Storage and Fuel Cell for a Clean Power System in Remote Area," in *Proc. 2020 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, India, 2020. (<https://ieeexplore.ieee.org/abstract/document/9379839>)
- C6. **R. Khezri**, A. Mahmoudi, and H. Aki, "Optimal Planning of Renewable Energy Resources and Battery Storage System for an Educational Campus in South Australia," in *Proc. 2020 IEEE Energy Convers. Cong. Expo.*, Detroit, US, 2020. (<https://ieeexplore.ieee.org/abstract/document/9235725>)
- C7. **R. Khezri**, A. Mahmoudi, and M. Haque, "Two-Stage Optimal Sizing of Standalone Hybrid Electricity Systems with Time-of-Use Incentive Demand Response," in *Proc. 2020 IEEE Energy Convers. Cong. Expo.*, Detroit, US, 2020. (<https://ieeexplore.ieee.org/abstract/document/9236381>)
- C8. **R. Khezri**, A. Mahmoudi, and S. Golshannavaz, "An Intelligent Fuzzy Control Approach for a Back-Pressure Autonomous Industrial Microgrid," in *Proc. 2020 IEEE Energy Convers. Cong. Expo.*, Detroit, US, 2020. (<https://ieeexplore.ieee.org/abstract/document/9236295>)
- C9. **R. Khezri**, A. Mahmoudi, and M. Haque, "Optimal Capacity of PV and BES for Grid-connected Households in South Australia," in *Proc. 2019 IEEE Energy Convers. Cong. Expo.*, Baltimore, US, 2019. (<https://ieeexplore.ieee.org/abstract/document/8913055>)
- C10. **R. Khezri**, A. Mahmoudi, and M. Haque, "SWT and BES Optimisation for Grid-connected Households in South Australia," in *Proc. 2019 IEEE Energy Convers. Cong. Expo.*, Baltimore, US, 2019. (<https://ieeexplore.ieee.org/abstract/document/8912767>)
- C11. **R. Khezri**, A. Mahmoudi, and M. Haque, "Optimal WT, PV and BES based Energy Systems for Standalone Households in South Australia," in *Proc. 2019 IEEE Energy Convers. Cong. Expo.*, US, 2019. (<https://ieeexplore.ieee.org/abstract/document/8911902/>)
- C12. A. Oshnoei, **R. Khezri**, M. Ghaderzadeh, H. Parang, S. Oshnoei, M. Kheradmandi, "Application of IPSO algorithm in DFIG-based wind turbines for efficient frequency control of multi-area power systems," *Smart Grid Conference (SGC)*, 2017. (<https://ieeexplore.ieee.org/abstract/document/8308835>)
- C13. A. Oshnoei, **R. Khezri**, O. Sadeghian and K. Zare, "Optimal Capacitor Location Based-on Data Clustering in the Presence of Wind Turbines" *25th Iranian Conference on Electrical Engineering*, (in Persian), 2017.

- C14. A. Oshnoei, M.T. Hagh, **R. Khezri**, and B. Mohammadi-Ivatloo, "Application of IPSO and Fuzzy Logic Methods in Electrical Vehicles for Efficient Frequency Control of Multi-area Power Systems," *25th Iranian Conference on Electrical Engineering*, 2017. (<https://ieeexplore.ieee.org/abstract/document/7985251/>)
- C15. **R. Khezri**, Sh. Shokoohi, S. Golshannavaz, and H. Bevrani, "Intelligent Over-Current Protection Scheme in Inverter-Based Microgrids," *Smart Grid Conference (SGC)*, pages 1-6, 2015. (<https://ieeexplore.ieee.org/abstract/document/7857390/>)
- C16. S. Atae, **R. Khezri**, M. R. Feizi and H. Bevrani, "Impacts of Wind and Conventional Power Coordination on the Short-Term Frequency Performance," *23rd Iranian Conference on Electrical Engineer.*, pages 1-6, 2015. (<https://ieeexplore.ieee.org/abstract/document/7146462/>)
- C17. **R. Khezri**, H. Bevrani, "AVR and PSS Coordinated Based Fuzzy Approach for Transient Stability Enhancement," *23rd Iranian Conference on Electrical Engineering*, pages 1-6, 2015. (<https://ieeexplore.ieee.org/abstract/document/7146485/>)
- C18. S. Atae, **R. Khezri**, M. R. Feizi and H. Bevrani, "Investigating the Impacts of Wind Power Contribution on the Short-Term Frequency Performance," *Smart Grid Conference (SGC)*, pages 1-6, 2014. (<https://ieeexplore.ieee.org/abstract/document/7150709/>)
- C19. **R. Khezri** and H. Bevrani, "Fuzzy-based coordinated control design for AVR and PSS in multi-machine power system," *13th Iranian Conference on Fuzzy Systems (IFSC)*, pp. 1-5, 2013. (<https://ieeexplore.ieee.org/abstract/document/6675659/>)
- C20. **R. Khezri** and H. Bevrani, "Fuzzy logic-based controller in interconnected power system for load frequency control," *13th Iranian Conference on Fuzzy Systems (IFSC)*, pp. 1-5, 2013.

PROFESSIONAL ACTIVITIES

Editorial Board Services

- Associate Editor, *IET Generation, Transmission, & Distribution*, from 2021
- Topic Editor (Smart Grids and Microgrids Section), *Energies*, from 2021
- Lead Guest Editor, *IET Generation, Transmission, & Distribution*, Special Issue on Application of Cloud Energy Storage Systems (CESSs) in Power Systems
- Chief Guest Editor, *Sustainability*, Application of AI, Iot, and Blockchain in Smart Grids with Distributed Energy Resources
- Chief Guest Editor, *Energies*, Microgrids Control and Optimization

Technical Reviewer

Journal Review:

- IEEE Trans. Power Systems, IEEE Access (IEEE), IET Renewable Power Generation, IET Gene., Trans. and Distrib., IET Energy Systems Integration (IET), Renewable and Sustainable Energy Reviews, Journal of Cleaner Production, Electric Power System Research, Control Engineering Practice, International Journal of Electrical Power and Energy Systems (Elsevier), International Journal of Energy Research, International Transactions on Electrical Energy Systems (Wiley), Electric Power Components and Systems, International Journal of Green Energy (Taylor and Francis), Energies, Applied Sciences, Processes, Algorithms (MDPI), Renewables Wind Water and Solar (Springer)

Conference Reviews:

- IEEE Energy Conversion Congress and Exposition (ECCE 2021), Vancouver, Canada.
- The 4th International Conference on Mechanic, Electric and Industrial Engineering (MEIE2021), Kunming, China.
- The 5th International Conference on Fuzzy Systems and Data Mining (FSDM 2019). Kitakyushu City, Japan.
- The 2020 IEEE Texas Power and Energy Conference (TPEC 2020). College Station, Texas, USA.
- The Fifth International Conference on Energy Eng. and Environmental Protection (EEEP2020), Xiamen, China.

COMPUTER SKILLS

- **Software:** MATLAB, DigSILENT Power Factory, GAMS.
- **Optimization Algorithms:** Metaheuristic methods, Classic mathematical methods.
- **Intelligent Software:** Fuzzy toolbox, ANFIS, Artificial neural network.
- **Operating Systems and Microsoft Office:** Microsoft Windows, Word, Excel, PowerPoint, Visio.

PROFESSIONAL MEMBERSHIPS

- Institute of Electrical and Electronics Engineers (IEEE) student member for 9 years, (2013 – Now).
- Iranian Association of Electrical & Electronics Engineers (2015- 2017)
- Iran Construction Engineering Organization (2015- 2016)
- Iranian Wind Energy Association (2016)

HOBBIES

- Music (A professional Setar player. Setar is a traditional Persian instrument)
- Travel, Amateur photography, Playing Tennis and Chess

REFEREES

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BIOGRAPHY



Rahmat Khezri (S'12) received the M.Sc. degree in electrical engineering from University of Kurdistan, Iran, in 2014, and the Ph.D. degree in electrical engineering from Flinders University, Australia, in 2021. From November 2019 to October 2020, he was a research fellow in University of Tsukuba, Japan, where he developed new practical optimal sizing frameworks for renewable systems in residential sector. From January to June 2021, he was a visiting scholar at Aarhus University, Denmark. Now, he is working as a postdoctoral researcher at Chalmers University of Technology in Sweden from February 2022. His research interests include power system planning and operation, power system stability and control, cloud energy storage systems, and application of intelligent controllers.

Dr Khezri was the recipient of Australian Government Research Training Program Scholarship in 2018, Mawson Lake Fellowship Program in 2019, and South Australian Fresh Scientist in 2019.