

# Sohrab MIRSAEIDI

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## SUMMARY OF ACTIVITIES

Sohrab Mirsaeidi received his Ph.D. degree in Electrical Engineering from [Universiti Teknologi Malaysia \(UTM\)](#), Malaysia in 2016. Subsequently, he furthered his Postdoctoral Fellowship at the Department of Electrical Engineering, [Tsinghua University](#), China from 2016 to 2019. Currently, he is an Associate Professor at the School of Electrical Engineering, [Beijing Jiaotong University \(BJTU\)](#), China. Sohrab Mirsaeidi has published 50+ papers and 2 books in the field of Microgrids and Large-Scale Power Systems. He is a Member of the National Technical Committee of Measuring Relays and Protection Equipment Standardization of China and has been involved in several national research projects in China. He is an Editorial Board Member for several international journals and a Regular Reviewer for IEEE Transactions journals. He has also served as Keynote Speaker, Session Chair, and Technical Committee Member in 30+ international conferences. His main research interests include Control and Protection of Large-Scale Hybrid AC/DC Grids and Microgrids, Power System Stability, and Application of Power Electronics in Power Systems. He is a Member of [IEEE](#), [IET](#), [CIGRE](#), and [Chinese Society for Electrical Engineering \(CSEE\)](#).

## RELATED LINKS

University Profile [Link](#)

LinkedIn Profile [Link](#)

ResearchGate Profile [Link](#)

Google Scholar ID [4febzSEAAAAJ](#)

WOS ResearcherID [AAD-4976-2019](#)

ORCID [0000-0002-9564-0101](#)

Scopus ID [55321948900](#)

## ACADEMIC POSITIONS

Present  
May 2019 | Associate Professor, School of Electrical Engineering, BEIJING JIAOTONG UNIVERSITY (BJTU), P. R. China

April 2019  
Nov. 2016 | Postdoctoral Fellow, Department of Electrical Engineering, TSINGHUA UNIVERSITY, P. R. China

## EDUCATION

Apr. 2016  
Feb. 2013 | Ph.D. in Electrical Engineering, UNIVERSITI TEKNOLOGI MALAYSIA (UTM), Malaysia  
> **Dissertation:** A Protection Strategy for Micro-Grids Based on Positive-Sequence Impedance.

May 2012  
Sept. 2010 | M.Sc. in Electrical Power Engineering, AZAD UNIVERSITY OF SAVEH, Iran  
> **Dissertation:** Introduction of a New Protection Method against Line-to-Line Faults in Micro-grids.

Jan. 2010  
Sept. 2005 | B.Sc. in Electronic Engineering, TAFRESH UNIVERSITY, Iran  
> **Dissertation:** Wireless Thermometer Using FSK Modulation.

## FELLOWSHIPS, AWARDS, AND HONORS

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- 2020 Best Paper Award, 2020 IEEE International Conference on Power and Energy (PEcon2020), Malaysia.
- 2019 Completion of Postdoctoral Fellowship with the grade of “Excellent”, Tsinghua University, P. R. China.
- 2014 International Doctoral Fellowship 2014, Universiti Teknologi Malaysia (UTM), Malaysia.
- 2013 International Doctoral Fellowship 2013, Universiti Teknologi Malaysia (UTM), Malaysia.
- 2012 First rank among all graduate M.Sc. students in Electrical Power Engineering with GPA 18.62/20, Azad University of Saveh, Iran.
- 2010 First rank among 1200 participants in Azad University entrance exam for M.Sc. degree, Azad University of Saveh, Iran.

## RESEARCH INTERESTS

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Control and Protection of Large-Scale Hybrid AC/DC Grids and Microgrids, Power System Stability, and Application of Power Electronics in Power Systems.

## TEACHING EXPERIENCE

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1. Teaching Undergraduate Courses “Power System Stability and Control”, and “Renewable Energy Power Generation and Grid Connection Technology”, and Graduate Course “Modern Power System Analysis” as Associate Professor, Beijing Jiaotong University (BJTU), China, 2019-Present.
2. MATLAB Programming Tutor, Temasek Multimedia Research and Development Company, Malaysia, 2014-2016.
3. Teaching Courses “Electrical Measurements and Instrumentation Lab”, and “Electric Circuits Lab” as Instructor, Azad University of Komijan, Iran, 2011-2012.
4. Teaching Assistant for Courses “Electromagnetic Field Theory”, “Electric Circuits”, and “Power Electronics”, Tafresh University, Iran, 2006-2009.

## PROFESSIONAL ACTIVITIES

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### Leaderships

### Editorship in International Journals

1. Editor, Journal of Basic Sciences and Applied Research
2. Editor, International Journal of Electrical and Computer Sciences
3. Editorial Board Member, Journal of Electronics and Advanced Electrical Engineering

### Reviewership in International Journals (50+ Verified Reviews by Publons)

1. IEEE Transactions on Industrial Informatics
2. IEEE Transactions on Power Systems
3. IEEE Transactions on Power Delivery
4. IEEE Transactions on Power Electronics
5. IEEE Access
6. IEEE Power Engineering Letters
7. Renewable and Sustainable Energy Reviews
8. International Journal of Electrical Power and Energy Systems
9. International Transactions on Electrical Energy Systems
10. Protection and Control of Modern Power Systems
11. Neural Computing and Applications
12. Electric Power Components and Systems
13. Journal of Electrical Engineering and Technology
14. International Journal of Emerging Electric Power Systems
15. CSEE Journal of Power and Energy Systems
16. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

### Chairship in International Conferences

1. Session Chair, The 8th International Conference On Electrical and Electronics Engineering (ICEEE 2021), Antalya, Turkey, Apr. 9-11, 2021.
2. Session Chair, The 5th International Conference on Environmental and Energy Engineering (IC3E 2021), Yangzhou, China, Mar. 19-21, 2021.
3. Session Chair, The 11th International Conference on Renewable and Clean Energy (ICRCE 2021), Shiga, Japan, Feb. 26-28, 2021.
4. Session Chair, The 10th International Conference on Power, Energy and Electrical Engineering (CPEEE 2020), Tokyo, Japan, Feb. 18-20, 2020.

5. Session Chair, The 3rd International Electrical and Energy Conference (CIEEC 2019), Beijing, China, Sept. 7-9, 2019.

#### **Committee Membership in International Conferences**

1. Technical Committee Member, The 11th IEEE PES International Innovative Smart Grid Technologies Conference-Asia (ISGT-Asia 2021), Brisbane, Australia, Dec. 5-8, 2021.
2. Technical Committee Member, The 8th International Conference on Electronics Engineering and Technology (ICEET 2021), Tokyo, Japan, July 16-18, 2021.
3. Technical Committee Member, The 5th International Conference on Energy Science and Electrical Engineering (ICESEE 2021), Budapest, Hungary, July 9-11, 2021.
4. Organizing Committee Member, International Conference on Electronics & Electrical Engineering (ICEEE Seoul 2021), Seoul, South Korea, June 8-10, 2021.
5. Technical Committee Member, The 3rd Asia Energy and Electrical Engineering Symposium (AEEES 2021), Chengdu, China, March 26-29, 2021.
6. Steering Committee Member, International Conference on Electrical, Electronics and Computing Technology (EECT 2021), Xiamen, China, March 26-28, 2021.
7. Technical Committee Member, The 5th International Conference on Environmental and Energy Engineering (IC3E 2021), Yangzhou, China, Mar. 19-21, 2021.
8. Technical Committee Member, The 4th International Conference on Energy, Electrical and Power Engineering (CEEPE 2021), Chongqing, China, Apr. 23-25, 2021.
9. Technical Committee Member, The 12th Asia-Pacific Power and Energy Engineering Conference (APPEEC 2021), Xi'an, China, Apr. 17-19, 2021.
10. Technical Committee Member, The 8th International Conference On Electrical and Electronics Engineering (ICEEE 2021), Antalya, Turkey, Apr. 9-11, 2021.
11. Technical Committee Member, The 11th International Conference on Power, Energy and Electrical Engineering (CPEEE 2021), Shiga, Japan, Feb. 26-28, 2021.
12. Technical Committee Member, The 11th International Conference on Renewable and Clean Energy (ICRCE 2021), Shiga, Japan, Feb. 26-28, 2021.
13. Technical Committee Member, International Conference on Electronics, Communications and Information Technology (CECIT 2020), Shenzhen, China, Dec. 26-28, 2020.
14. Technical Committee Member, The 10th IEEE PES International Innovative Smart Grid Technologies Conference-Asia (ISGT-Asia 2020), Perth, Australia, Nov. 23-27, 2020.
15. Technical Committee Member, The 3rd International Conference on Advanced Mechanical and Electrical Engineering (AMEE 2020), Chongqing, China, Nov. 5-8, 2020.
16. Technical Committee Member, The 3rd International Conference on Renewable Energy and Power Engineering (REPE 2020), Edmonton, Canada, Oct. 9-11, 2020.
17. Technical Committee Member, The 8th International Conference on Smart Grid and Clean Energy Technologies (ICSGCE 2020), Sarawak, Malaysia, Oct. 4-7, 2020.
18. Technical Committee Member, The 3rd International Conference on Electronics and Electrical Engineering Technology (EEET 2020), Kitakyushu, Japan, Sep. 27-29, 2020.
19. Technical Committee Member, The 4th International Conference on Measurement Instrumentation and Electronics (ICMIE 2020), Chengdu, China, Sep. 18-20, 2020.
20. Technical Committee Member, The 3rd International Conference on Electrical Engineering and Green Energy (CEEGE 2020), Munich, Germany, June 27-29, 2020.
21. Technical Committee Member, The 4th International Conference on Energy Science and Electrical Engineering (ICESEE 2020), Prague, Czech Republic, June 22-24, 2020.
22. Technical Committee Member, International Conference on Electronics & Electrical Engineering (ICEEE Dubai 2020), Dubai, United Arab Emirates, June 8-10, 2020.
23. Technical Committee Member, Global 2020 Congress on Electrical Engineering (GC-ElecEng 2020), Valencia, Spain, May 29-31, 2020.
24. Technical Committee Member, The 3rd International Conference on Energy, Electrical and Power Engineering (CEEPE 2020), Chongqing, China, Apr. 24-26, 2020.
25. Technical Committee Member, The 7th International Conference on Electrical and Electronics Engineering (ICEEE 2020), Antalya, Turkey, Apr. 14-16, 2020.
26. Technical Committee Member, The 2nd Asia Energy and Electrical Engineering Symposium (AEEES 2020), Chengdu, China, Mar. 28-30, 2020.
27. Technical Committee Member, The 10th International Conference on Power, Energy and Electrical Engineering (CPEEE 2020), Tokyo, Japan, Feb. 18-20, 2020.

## Memberships

1. IEEE Power & Energy Society (PES), Member, 2020-Present.
2. Institution of Engineering and Technology (IET), Member, 2020-present.
3. The International Council on Large Electric Systems (CIGRE), Member, 2020-Present.
4. Chinese Society for Electrical Engineering (CSEE), Member, 2020-Present.
5. Beijing Electrical Engineering Society, Member, 2020-Present.
6. Institute of Electrical and Electronics Engineers (IEEE), Member, 2017-Present.
7. National Technical Committee of Measuring Relays and Protection Equipment Standardization of P. R. China, Member 2017-Present.
8. Elites Society of Markazi Province, Iran, Member, 2014-Present.
9. Centre of Electrical Energy Systems (CEES), Faculty of Electrical Engineering (FKE), Universiti Teknologi Malaysia (UTM), Malaysia, Member, 2013-2016.
10. Young Researchers and Elites Club, Azad University of Saveh, Iran, Member, 2010-2017.

## PROJECTS

1. Research on Fault Evolution Mechanism and New Protection Principle Theory of AC/DC Network With Hybrid DC, Funded by National Natural Science Foundation of China (NSFC) (U2066210), January 2021- December 2024, Participated.
2. Study on Fault Characteristics and Protection Adaptability of Kunliulong Multi-Terminal Hybrid HVDC System, Funded by China Southern Power Grid (CGYKJXM20180540), Nov. 2019- Nov. 2021, Participated.
3. Prevention of Blackouts Caused by Cascading Fault in Large-Scale Hybrid AC/DC Grids, Funded by Fundamental Research Funds for the Central Universities (2019RC051), Oct. 2019- Oct. 2021, Undertaken.
4. Basic Theory Research on Fault Current Suppression of Flexible DC Grid-System Fault Characteristics, Influence Mechanism and Evolution Law, Funded by National Key Research and Development Plan of China (2018YFB0904602), July 2018- June 2021, Participated.
5. Large-Scale Hybrid AC/DC Power Grid Operation, Control, and Protection, Funded by National Key Research and Development Plan of China (2016YFB0900600), July 2016- June 2021, Participated.

## KEYNOTE SPEECHES AND INVITED TALKS

1. Keynote Speaker, Commutation Failure and Its Consequences in Large-Scale Hybrid AC/DC Grids, The 2nd International Symposium on New Energy and Electrical Technology (ISNEET 2021), Guilin, China, July 23-25, 2021.
2. Keynote Speaker, Commutation Failure and Its Consequences in Large-Scale Hybrid AC/DC Grids, The 12th Asia-Pacific Power and Energy Engineering Conference (APPEEC 2021), Xi'an, China, Apr. 17-19, 2021.
3. Invited Talk, Development of Power Electronic-Based Approaches for Commutation Failure Inhibition in LCC-HVDC Systems, IEEE Sustainable Power & Energy Conference (iSPEC 2020), Chengdu, China, Nov. 23-25, 2020.
4. Invited Talk, Mechanism and Risk Areas of Cascading Faults: A Newly Emerging Fault Type in Large-Scale Hybrid AC/DC Power Grids, Smart Grid Forum, The 3rd International Electrical and Energy Conference (CIEEC 2019), Beijing, China, Sept. 2019.
5. Invited Talk, Control and Protection of Large-Scale Hybrid AC/DC Grids, Beijing Jiaotong University (BJTU), Beijing, China, Apr. 2018.
6. Invited Talk, Mitigation of Commutation Failures in LCC-based HVDC Systems Using Predictive Control Strategies, Xi'an Jiaotong University, Xi'an, China, Nov. 2017.

Books

1. Microgrids and Active Distribution Networks (In Persian Language), by Majid Gandomkar, Mohammad Reza Miveh, and **Sohrab Mirsaedi**, Tehran, Iran: Gheddis Press, Aug. 2012. (ISBN: 978-600-6450-20-9)
2. Distribution System Modeling and Analysis (In Persian Language), by Majid Gandomkar, **Sohrab Mirsaedi**, and Mohammad Reza Miveh, Tehran, Iran: Gheddis Press, Jan. 2012. (ISBN: 978-964-8424-64-5)

SCI: Q1 Jnls

First or Corresponding Author

1. Dimitrios Tzelepis, **Sohrab Mirsaedi**, Adam Dyśko, Qiteng Hong, Jinghan He, and Campbell Booth, "Intelligent Fault Location in MTDC Networks by Recognising Patterns in Hybrid Circuit Breaker Currents During Fault Clearance Process," *IEEE Transactions on Industrial Informatics*. DOI: 10.1109/TII.2020.3003476. (ISSN: 1551-3203, IF: 9.112, Published as Early Access on 18 June 2020)
2. **Sohrab Mirsaedi**, Dimitrios Tzelepis, Jinghan He, Xinzhou Dong, Dalila Mat Said, and Campbell Booth, "A Controllable Thyristor-Based Commutation Failure Inhibitor for LCC-HVDC Transmission Systems," *IEEE Transactions on Power Electronics*, vol.36, issue 4, pp. 3781-3792, Apr. 2020. DOI: 10.1109/TPEL.2020.3021284. (ISSN: 0885-8993, IF: 6.373, SCI: WOS: 000595580000019)
3. Xinzhou Dong, Eryong Guan, Liuming Jing, Hao Wang, and **Sohrab Mirsaedi**, "Simulation and Analysis of Cascading Faults in Hybrid AC/DC Power Grids," *International Journal of Electrical Power & Energy Systems*, vol. 115, 105492, Feb. 2020. DOI: 10.1016/j.ijepes.2019.105492. (ISSN: 0142-0615, IF: 3.588, SCI: WOS: 000491636300054)
4. **Sohrab Mirsaedi**, and Xinzhou Dong, "An Enhanced Strategy to Inhibit Commutation Failure in Line-Commutated Converters," *IEEE Transactions on Industrial Electronics*, vol. 67, issue 1, pp. 340-349, Jan. 2020. DOI: 10.1109/TIE.2019.2896328. (ISSN: 0278-0046, IF: 7.515, SCI: WOS: 000490858500029)
5. **Sohrab Mirsaedi**, Xinzhou Dong, and Dalila Mat Said, "A Fault Current Limiting Approach for Commutation Failure Prevention in LCC-HVDC Transmission Systems," *IEEE Transactions on Power Delivery*, vol. 34, issue 5, pp. 2018-2027, Oct. 2019. DOI: 10.1109/TPWRD.2019.2907558. (ISSN: 0885-8977, IF: 3.681, SCI: WOS: 000487533200019)
6. **Sohrab Mirsaedi**, and Xinzhou Dong, "An Integrated Control and Protection Scheme to Inhibit Blackouts Caused by Cascading Fault in Large-Scale Hybrid AC/DC Power Grids," *IEEE Transactions on Power Electronics*, vol. 34, issue 8, pp. 7278-7291, Aug. 2019. DOI: 10.1109/TPEL.2018.2881720. (ISSN: 0885-8993, IF: 6.373, SCI: WOS: 000469912200019)
7. Qi Jia, Xinzhou Dong, and **Sohrab Mirsaedi**, "A Traveling-Wave-Based Line Protection Strategy Against Single-Line-to-Ground Faults in Active Distribution Networks," *International Journal of Electrical Power & Energy Systems*, vol. 107, pp. 403-411, May 2019. DOI: 10.1016/j.ijepes.2018.11.032. (ISSN: 0142-0615, IF: 3.588, SCI: WOS: 000458221700038)
8. **Sohrab Mirsaedi**, Xinzhou Dong, Dimitrios Tzelepis, Dalila Mat Said, Adam Dyśko, and Campbell Booth, "A Predictive Control Strategy for Mitigation of Commutation Failure in LCC-Based HVDC Systems," *IEEE Transactions on Power Electronics*, vol. 34, issue 1, pp. 160-172, Jan. 2019. DOI: 10.1109/TPEL.2018.2820152. (ISSN: 0885-8993, IF: 6.373, SCI: WOS: 000451907000019)
9. **Sohrab Mirsaedi**, Xinzhou Dong, and Dalila Mat Said, "Towards Hybrid AC/DC Microgrids: Critical Analysis and Classification of Protection Strategies," *Renewable and Sustainable Energy Reviews*, vol. 90, pp. 97-103, July 2018. DOI: 10.1016/j.rser.2018.03.046. (ISSN: 1364-0321, IF: 12.11, SCI: WOS: 000434917700008)
10. **Sohrab Mirsaedi**, Xinzhou Dong, Shenxing Shi, and Dimitrios Tzelepis, "Challenges, Advances and Future Directions in Protection of Hybrid AC/DC Microgrids," *IET Renewable Power Generation*, vol. 11, issue 12, pp. 1495-1502, Oct. 2017. DOI: 10.1049/iet-rpg.2017.0079. (ISSN: 1752-1416, IF: 3.894, SCI: WOS: 000414303800001)
11. **Sohrab Mirsaedi**, Dalila Mat Said, Mohammad Wazir Mustafa, Mohammad Hafiz Habibuddin, and Kimia Ghaffari, "Modeling and Simulation of a Communication-Assisted Digital Protection Scheme for Micro-Grids," *Renewable and Sustainable Energy Reviews*, vol. 57, pp. 867-878, May 2016. DOI: 10.1016/j.rser.2015.12.218. (ISSN: 1364-0321, IF: 12.11, SCI: WOS: 000370456000064)
12. **Sohrab Mirsaedi**, Dalila Mat Said, Mohammad Wazir Mustafa, Mohammad Hafiz Habibuddin, and Kimia Ghaffari, "Fault Location and Isolation in Micro-Grids Using a Digital Central Protection Unit," *Renewable and Sustainable Energy Reviews*, vol. 56, pp. 1-17, Apr. 2016. DOI: 10.1016/j.rser.2015.10.162. (ISSN: 1364-0321, IF: 12.11, SCI: WOS: 000369462100001)

13. **Sohrab Mirsaiedi**, Dalila Mat Said, Mohammad Wazir Mustafa, and Mohammad Hafiz Habibuddin, "A Protection Strategy for Micro-grids Based on Positive-Sequence Component," *IET Renewable Power Generation*, vol. 9, issue 6, pp. 600-609, Aug. 2015. DOI: 10.1049/iet-rpg.2014.0255. (ISSN: 1752-1416, IF: 3.894, SCI: WOS: 000359845200009)
14. **Sohrab Mirsaiedi**, Dalila Mat Said, Mohammad Wazir Mustafa, Mohammad Hafiz Habibuddin, and Kimia Ghaffari, "Progress and Problems in Micro-grid Protection Schemes," *Renewable and Sustainable Energy Reviews*, vol. 37, pp. 834-839, Sept. 2014. DOI: 10.1016/j.rser.2014.05.044. (ISSN: 1364-0321, IF: 12.11, SCI: WOS: 000339533000063)
15. **Sohrab Mirsaiedi**, Dalila Mat Said, Mohammad Wazir Mustafa, Mohammad Hafiz Habibuddin, and Kimia Ghaffari, "An Analytical Literature Review of the Available Techniques for the Protection of Micro-Grids," *International Journal of Electrical Power & Energy Systems*, vol. 58, pp. 300-306, June 2014. DOI: 10.1016/j.ijepes.2014.01.032. (ISSN: 0142-0615, IF: 3.588, SCI: WOS: 000333779000033)

#### Non-First Author

1. Dimitrios Tzelepis, Vasileios Psaras, Eleni Tsotsopoulou, **Sohrab Mirsaiedi**, Adam Dyško, Qiteng Hong, Xinzhou Dong, Steven M. Blair, Vassilis C. Nikolaidis, Vassilis Papaspiliotopoulos, Grzegorz Fusiek, Graeme M. Burt, Pawel Niewczas, and Campbell Booth, "Voltage and Current Measuring Technologies for High Voltage Direct Current Supergrids: A Technology Review Identifying the Options for Protection, Fault Location and Automation Applications," *IEEE Access*, vol. 8, pp. 203398-203428, Nov. 2020. DOI: 10.1109/ACCESS.2020.3035905. (ISSN: 2169-3536, IF: 3.745)
2. Shenxing Shi, Beier Zhu, **Sohrab Mirsaiedi**, and Xinzhou Dong, "Fault Classification for Transmission Lines Based on Group Sparse Representation," *IEEE Transactions on Smart Grid*, vol. 10, issue 4, pp. 4673-4682, Jul. 2019. DOI: 10.1109/TSG.2018.2866487. (ISSN: 1949-3053, IF: 8.267, SCI: WOS: 000472577500104)
3. Hao Wang, **Sohrab Mirsaiedi**, Xiaoning Kang, Xinzhou Dong, and Dimitrios Tzelepis, "A Novel Traveling-wave-based Protection Scheme for LCC-HVDC Systems Using Teager Energy Operator," *International Journal of Electrical Power & Energy Systems*, vol. 99, pp. 474-480, July 2018. DOI: 10.1016/j.ijepes.2018.01.048. (ISSN: 0142-0615, IF: 3.588, SCI: WOS: 000430770600045)
4. Dimitrios Tzelepis, Adam Dyško, Grzegorz Fusiek, Pawel Niewczas, **Sohrab Mirsaiedi**, Campbell Booth, and Xinzhou Dong, "Advanced Fault Location in MTDC Networks utilizing Optically-Multiplexed Current Measurements and Machine Learning Approach," *International Journal of Electrical Power & Energy Systems*, vol. 97, pp. 319-333, April 2018. DOI: 10.1016/j.ijepes.2017.10.040. (ISSN: 0142-0615, IF: 3.588, SCI: WOS: 000424720900031)

#### SCI: Q2 Jnls

#### Non-First Author

1. Dimitrios Tzelepis, Adam Dyško, Steven M. Blair, Anastasios Oulis Rousis, **Sohrab Mirsaiedi**, Campbell Booth, and Xinzhou Dong, "Centralised Busbar Differential and Wavelet-Based Line Protection System for Multi-Terminal Direct Current Grids, with Practical IEC-61869-Compliant Measurements," *IET Generation, Transmission & Distribution*, vol. 12, issue 14, pp. 3578-3586, Aug. 2018. DOI: 10.1049/iet-gtd.2017.1491. (ISSN: 1751-8687, IF: 2.862, SCI: WOS: 000441256000023)

#### SCI: Q3-Q4 Jnls

#### First or Corresponding Author

1. Yahui Wu, Xinzhou Dong, and **Sohrab Mirsaiedi**, "Design and Simulation of a New Model for Air-Gapped Current Transformers," *IEEJ Transactions on Electrical and Electronic Engineering*, vol. 13, issue 8, pp. 1127-1135, Aug. 2018. DOI: 10.1002/tee.22675. (ISSN: 1931-4973, IF: 0.668, SCI: WOS: 000437114700008)
2. **Sohrab Mirsaiedi**, Xinzhou Dong, Shenxing Shi, and Bin Wang, "AC and DC Microgrids: A Review on Protection Issues and Approaches," *Journal of Electrical Engineering & Technology*, vol. 12, no. 6, pp. 2089-2098, Nov. 2017. DOI: 10.5370/JEET.2017.12.6.2089. (ISSN: 1975-0102, IF: 0.736, SCI: WOS: 000417378600001)
3. **Sohrab Mirsaiedi**, Dalila Mat Said, Mohammad Wazir Mustafa, Mohammad Hafiz Habibuddin, and Kimia Ghaffari, "Microprocessor-Based Protection for Different Type Microgrid Faults," *Electronics World*, vol. 122, issue 1957, pp. 12-18, Jan. 2016. (ISSN: 1365-4675, IF: 0.026, SCI: WOS: 000368471500008)
4. **Sohrab Mirsaiedi**, Dalila Mat Said, Mohammad Wazir Mustafa, Mohammad Hafiz Habibuddin, and Kimia Ghaffari, "Design and Testing of a Centralized Protection Scheme for Micro-grids Faults," *Journal of Central South University*, vol. 22, issue 10, pp. 3876-3887, Oct. 2015. DOI: 10.1007/s11771-015-2932-9. (ISSN: 2095-2899, IF: 1.249, SCI: WOS: 000363023900023)

1. Yahui Wu, Xinzhou Dong, and **Sohrab Mirsaiedi**, "Modeling and simulation of air-gapped current transformer based on Preisach Theory," *Protection and Control of Modern Power Systems*, vol. 2, issue 1, pp. 1-11, Dec. 2017. DOI: 10.1186/s41601-017-0046-0. (ISSN: 2367-2617)
2. Maziar Izadbakhsh, Alireza Rezvani, Majid Gandomkar, and **Sohrab Mirsaiedi**, "Dynamic Analysis of PMSG Wind Turbine under Variable Wind Speeds and Load Conditions in the Grid Connected Mode," *Indian Journal of Science and Technology*, vol. 8, issue 14, pp. 1-7, July 2015. DOI: 10.17485/ijst/2015/v8i14/51864. (ISSN: 0974-6846)
3. Alireza Rezvani, Maziar Izadbakhsh, **Sohrab Mirsaiedi**, and Saeed Vafaei, "Comparison Between ANN-GA and Incremental Conductance Control for Solar PV System in the Grid Connected Mode," *Science International-Lahore*, vol. 27, issue 3, pp. 1931-1937, May 2015. (ISSN: 1013-5316)
4. **Sohrab Mirsaiedi**, Dalila Mat Said, Mohammad Wazir Mustafa, Mohammad Hafiz Habibuddin, and Kimia Ghaffari, "Review and Analysis of Existing Protection Strategies for Micro-grids," *Journal of Electrical Systems*, vol. 10, issue 1, pp. 1-10, Mar. 2014. (ISSN: 1112-5209)
5. **Sohrab Mirsaiedi**, Mahmood Gharehzadeh Shirazi, Kimia Ghaffari, and Mahsa Mirsaiedi, "Placement and Sizing of VAR Compensators in Power Networks Containing Unbalanced Loads by Particle Swarm Optimization," *Journal of Applied Environmental and Biological Sciences*, vol. 3, issue 10, pp. 102-110, Oct. 2013. (ISSN: 2090-4274)
6. **Sohrab Mirsaiedi**, Mahmood Gharehzadeh Shirazi, Kimia Ghaffari, and Mahsa Mirsaiedi, "Determination of Allowable Capacity of Distributed Generation Units for the Prevention of Protection Mis-Coordination in Distribution Networks," *Journal of Applied Environmental and Biological Sciences*, vol. 3, issue 10, pp. 116-124, Oct. 2013. (ISSN: 2090-4274)
7. Behrooz Moeil, Majid Gandomkar, Mehdi Gooran, and **Sohrab Mirsaiedi**, "Distinction of Permanent and Transient Faults in Microgrids Using Wavelet Transform," *Journal of Applied Environmental and Biological Sciences*, vol. 3, issue 10, pp. 41-51, Oct. 2013. (ISSN: 2090-4274)
8. **Sohrab Mirsaiedi**, Dalila Mat Said, Mohammad Wazir Mustafa, Mohammad Hafiz Habibuddin and Mohammad Reza Miveh, "A Comprehensive Overview of Different Protection Schemes in Micro-Grids," *International Journal of Emerging Electric Power Systems*, vol. 14, issue 4, pp. 327-332, July 2013. DOI: 10.1515/ijeeeps-2013-0051. (ISSN: 1553-779X)
9. Mohammad Reza Miveh, **Sohrab Mirsaiedi**, and Majid Gandomkar, "Fundamental Key Issues and Analysis of Symmetrical Current Components in Micro-Grids," *IOSR Journal of Pharmacy*, vol. 2, issue 4, pp. 9-16, July 2012. DOI: 10.9790/3013-2410916. (ISSN: 2319-4219)
10. **Sohrab Mirsaiedi**, Majid Gandomkar, and Mohammad Reza Miveh, "Microgrid Protection Using a Designed Relay Based on Symmetrical Components," *Middle East Journal of Scientific Research*, vol. 11, issue 8, pp. 1022-1028, June 2012. (ISSN: 1990-9233)
11. Mohammad Reza Miveh, and **Sohrab Mirsaiedi**, "Introduction and Evaluation of Teleprotection Systems in Micro-Grids," *International Journal of Engineering and Advanced Technology*, vol. 1, issue 5, pp. 448-452, June 2012. (ISSN: 2249-8958)
12. **Sohrab Mirsaiedi**, Mohammad Reza Miveh, and Majid Gandomkar, "Evaluation of Dynamic Stability During a Symmetrical Three-Phase Short Circuit at Machine Terminals of Siah Bishe Pumped Storage Power Plant," *International Journal of Engineering and Advanced Technology*, vol.1, issue 5, pp. 442-447, June 2012. (ISSN: 2249-8958)
13. Mojtaba Nouri, Mahdi Bayat Mokhtari, **Sohrab Mirsaiedi**, and Mohammad Reza Miveh, "Improvement of Loadability in Distribution System Using Genetic Algorithm," *Advanced Computing: An International Journal*, vol. 3, no. 3, pp. 1-18, May 2012. DOI : 10.5121/acij.2012.3301. (ISSN: 2229-6727)
14. Mohammad Reza Miveh, Majid Gandomkar, **Sohrab Mirsaiedi**, and Hosein Nasiban, "Micro-Grid Protection by Designing a Communication- Assisted Digital Relay," *American Journal of Scientific Research*, issue 51, pp. 62-68, February 2012. (ISSN: 2301-2005)
15. Mahdi Johar, Ahmad Radan, Mohammad Reza Miveh, and **Sohrab Mirsaiedi**, "Comparison of DFIG and Synchronous Machine for Hydro-Power Generation," *International Journal of Pure and Applied Sciences and Technology*, vol. 7, no. 1, pp. 48-58, Nov. 2011. (ISSN: 2229-6107)

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## GRADUATE ADVISING

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1. M.Sc. Thesis, Subash Devkota, Optimal Allocation of FACTS Devices in Power System Using NSGA-II Algorithm, Beijing Jiaotong University (BJTU), to be Completed in 2022.
2. M.Sc. Thesis, Alice Giramata, Prevention of Blackouts Caused by Cascading Faults in Hybrid AC/DC Systems, Beijing Jiaotong University (BJTU), to be Completed in 2022.
3. B.Sc. Graduation Project, Mahmuda Rahman, Comparative Analysis of Load flow Techniques for Z-bus based Fault Studies, Beijing Jiaotong University (BJTU), to be Completed in 2021.
4. B.Sc. Graduation Project, Shangru Li, Power Loss Minimization of Power Systems through Optimal Placement and Sizing of Distributed Energy Resources, Beijing Jiaotong University (BJTU), to be Completed in 2021.
5. B.Sc. Graduation Project, Hanzhang Liu, Development of an Improved Solid-State Fault Current Limiter, Beijing Jiaotong University (BJTU), 2020.
6. B.Sc. Graduation Project, Xingyu Wu, A Non-Communication protection Scheme for Microgrids, Beijing Jiaotong University (BJTU), 2020.
7. B.Sc. Graduation Project, Ziyue Huang, Commutation Failure Mitigation in HVDC Transmission Lines, Beijing Jiaotong University (BJTU), 2020.

## REFERENCES

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