

# 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 60+ 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 presided over and participated 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 Chair, Keynote/Invited Speaker, and Technical Committee Member in 60+ 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 Senior Member of [IEEE](#), and a Member of [IET](#), [CIGRE](#), and [Chinese Society for Electrical Engineering \(CSEE\)](#).

## RELATED LINKS

University Profile	<a href="#">Link</a>
LinkedIn Profile	<a href="#">Link</a>
ResearchGate Profile	<a href="#">Link</a>
Google Scholar ID	<a href="#">4febzSEAAAAJ</a>
WOS ResearcherID	<a href="#">AAD-4976-2019</a>
ORCID	<a href="#">0000-0002-9564-0101</a>
Scopus ID	<a href="#">55321948900</a>

## 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 > <b>Dissertation:</b> 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 > <b>Dissertation:</b> 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 > <b>Dissertation:</b> Wireless Thermometer Using FSK Modulation.

## FELLOWSHIPS, AWARDS, AND HONORS

- |      |   |
|------|---|
| 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 18.66/20, 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

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

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 Course “Electromagnetic Field Theory”, and “Electric Circuits Lab”, Tafresh University, Iran, 2006-2009.

## PROFESSIONAL ACTIVITIES

### Leaderships

### Editorship in International Journals

1. Editorial Advisory Board Member, Archives of Electrical Engineering
2. Editor, Journal of Electronics and Advanced Electrical Engineering
3. Editor, Journal of Basic Sciences and Applied Research
4. Editor, International Journal of Electrical and Computer Sciences
5. Editor, Journal of Power and Energy Engineering
6. Associate Editor, Bulletin of Electrical Engineering and Informatics
7. Review Editor, Frontiers in Energy Research
8. Editorial Board Member, International Journal of Smart Grid and Clean Energy
9. Editorial Board Member, American Journal of Electrical Power and Energy Systems
10. Editorial Board Member, Electronics Journal
11. Editorial Board Member, Journal on Advanced Research in Electrical Engineering
12. Editorial Board Member, Journal on Solar Energy Research Updates
13. Expert Reviewer, Academic Exchange Information Centre

### Reviewership in International Journals (70+ Verified Reviews by Publons)

1. IEEE Transactions on Industrial Informatics
2. IEEE Transactions on Industrial Electronics
3. IEEE Transactions on Power Systems
4. IEEE Transactions on Power Delivery
5. IEEE Transactions on Power Electronics
6. IEEE Transactions on Energy Conversion
7. IEEE Transactions on Intelligent Transportation Systems
8. IEEE Access
9. IEEE Systems Journal
10. IEEE Power Engineering Letters
11. IET Generation, Transmission & Distribution
12. Renewable and Sustainable Energy Reviews
13. International Journal of Electrical Power and Energy Systems
14. International Transactions on Electrical Energy Systems
15. Electric Power Systems Research
16. Protection and Control of Modern Power Systems
17. Neural Computing and Applications
18. Electric Power Components and Systems

19. Journal of Electrical Engineering and Technology
20. International Journal of Emerging Electric Power Systems
21. CSEE Journal of Power and Energy Systems
22. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields
23. Archives of Electrical Engineering

#### **Chairship in International Conferences**

1. Special Session Organizer, 2022 Asia Power and Electrical Technology Conference (APET 2022), Shanghai, China, Nov. 11-13, 2022.
2. Publicity Chair, 2022 10th International Conference on Smart Grid and Clean Energy Technologies (ICSGCE 2022), Kuala Lumpur, Malaysia, Oct. 14-16, 2022.
3. Publicity Chair, 2022 7th Asia-Pacific Conference on Intelligent Robot Systems (ACIRS 2022), Tianjin, China, July 1-3, 2022.
4. Publicity Chair, 2022 International Conference on Advanced Electronics, Electrical and Green Energy (AEEGE 2022), Chongqing, China, May 20-22, 2022.
5. Session Chair, 2022 the 6th International Conference on Power Energy Systems and Applications (ICoPESA 2022), Singapore, Singapore, Feb. 25-27, 2022.
6. Session Chair, 12th International Conference on Power, Energy and Electrical Engineering (CPEEE 2022), Shiga, Japan, Feb. 25-27, 2022.
7. Session Chair, 2021 4th International Conference on Electronics and Electrical Engineering Technology (EEET 2021), Nanjing, China, Dec. 3-5, 2021.
8. Conference Chair, 2021 International Conference on Power Electronics and Power Transmission (ICPEPT 2021), Xi'an, China, Oct. 15-17, 2021.
9. Session Chair, 2021 IEEE 4th International Conference on Renewable Energy and Power Engineering (REPE 2021), Beijing, China, Oct. 9-11, 2021.
10. Session Chair, The 5th International Conference on Measurement Instrumentation and Electronics (ICMIE 2021), Shanghai, China, Aug. 27-29, 2021.
11. Session Chair, 2021 8th International Conference on Electronics Engineering and Technology (ICEET 2021), Tokyo, Japan, July 16-18, 2021.
12. Session Chair, The 10th International Conference on Power, Energy and Electrical Engineering (CPEEE 2020), Tokyo, Japan, Feb. 18-20, 2020.
13. Session Chair, The 3rd International Electrical and Energy Conference (CIEEC 2019), Beijing, China, Sept. 7-9, 2019.

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

1. Scientific Committee Member, International Meet on Power Electronics and Applications 2023 (PEAMEET 2023), Valencia, Spain, Apr. 17-19, 2023.
2. Advisory Committee Member, 2022 4th International Conference on Electrical Engineering and Control Technologies (CEECT 2022), Shanghai, China, Dec. 16-18, 2022.
3. International Technical Committee Member, The 6th International Conference on Measurement Instrumentation and Electronics (ICMIE 2022), Hangzhou, China, Nov. 17-19, 2022.
4. Publicity Committee Member, 2022 Asia Power and Electrical Technology Conference (APET 2022), Shanghai, China, Nov. 11-13, 2022.
5. Technical Committee Member, 2022 Asia Power and Electrical Technology Conference (APET 2022), Shanghai, China, Nov. 11-13, 2022.
6. Organizing Committee Member, International Forum on Electronics and Electrical Engineering (EEEFForum 2022), Barcelona, Spain, Oct. 17-19, 2022.
7. Technical Committee Member, 2022 5th International Conference on Renewable Energy and Power Engineering (REPE 2022), Beijing, China, Sept. 28-30, 2022.
8. Steering Committee Member, 2022 International Conference on Networks, Communications and Information Technology (CNCIT 2022), Beijing, China, June 8-11, 2022.
9. Technical Committee Member, The 5th International Conference on Electrical Engineering and Green Energy (CEEGE 2022), Berlin, Germany, June 8-11, 2022.
10. Technical Committee Member, The 5th International Conference on Mechanical, and Industrial Engineering (MEIE 2022), Sanya, China, May 24-26, 2022.
11. Technical Committee Member, 2022 Asia Conference on Electrical Power and Computer Engineering (EPCE 2022), Shanghai, China, Apr. 22-24, 2022.
12. Technical Committee Member, The 4th Asia Energy and Electrical Engineering Symposium (AEEES 2022), Chengdu, China, Mar. 25-28, 2022.
13. Technical Committee Member, The 12th International Conference on Power, Energy and Electrical Engineering (CPEEE 2022), Shiga, Japan, Feb. 26-28, 2022.

14. Technical Committee Member, The 6th International Conference on Power Energy Systems and Applications (ICoPESA 2022), Singapore, Singapore, Feb. 25-27, 2022.
15. Technical Committee Member, The 12th International Conference on Renewable and Clean Energy (ICRCE 2022), Shiga, Japan, Feb. 25-27, 2022.
16. Technical Committee Member, The 11th IEEE PES International Innovative Smart Grid Technologies Conference-Asia (ISGT-Asia 2021), Brisbane, Australia, Dec. 5-8, 2021.
17. Technical Committee Member, The 4th International Conference on Electronics and Electrical Engineering Technology (EEET 2021), Nanjing, China, Dec. 3-5, 2021.
18. Technical Committee Member, The 9th International Conference on Smart Grid and Clean Energy Technologies (ICSGCE 2021), Sarawak, Malaysia, Oct. 15-17, 2021.
19. Technical Committee Member, The 4th International Conference on Renewable Energy and Power Engineering (REPE 2021), Beijing, China, Oct. 9-11, 2021.
20. Technical Committee Member, The 5th International Conference on Measurement Instrumentation and Electronics (ICMIE 2021), Shanghai, China, Aug. 27-29, 2021.
21. Technical Committee Member, The 8th International Conference on Electronics Engineering and Technology (ICEET 2021), Tokyo, Japan, July 16-18, 2021.
22. Technical Committee Member, The 5th International Conference on Energy Science and Electrical Engineering (ICESEE 2021), Budapest, Hungary, July 9-11, 2021.
23. Technical Committee Member, 2021 IEEE International Conference on Electrical Engineering and Mechatronics Technology (ICEEMT 2021), Qingdao, China, July 2-4, 2021.
24. Technical Committee Member, The 4th International Conference on Electrical Engineering and Green Energy (CEEGE 2021), Munich, Germany, June 10-13, 2021.
25. Organizing Committee Member, International Conference on Electronics & Electrical Engineering (ICEEE Seoul 2021), Seoul, South Korea, June 8-10, 2021.
26. Technical Committee Member, The 3rd Asia Energy and Electrical Engineering Symposium (AEEES 2021), Chengdu, China, Mar. 26-29, 2021.
27. Steering Committee Member, International Conference on Electrical, Electronics and Computing Technology (EECT 2021), Xiamen, China, Mar. 26-28, 2021.
28. Technical Committee Member, The 4th International Conference on Energy, Electrical and Power Engineering (CEEPE 2021), Chongqing, China, Apr. 23-25, 2021.
29. Technical Committee Member, The 12th Asia-Pacific Power and Energy Engineering Conference (APPEEC 2021), Xi'an, China, Apr. 17-19, 2021.
30. Technical Committee Member, The 8th International Conference On Electrical and Electronics Engineering (ICEEE 2021), Antalya, Turkey, Apr. 9-11, 2021.
31. Technical Committee Member, The 11th International Conference on Power, Energy and Electrical Engineering (CPEEE 2021), Shiga, Japan, Feb. 26-28, 2021.
32. Technical Committee Member, The 11th International Conference on Renewable and Clean Energy (ICRCE 2021), Shiga, Japan, Feb. 26-28, 2021.
33. Technical Committee Member, International Conference on Electronics, Communications and Information Technology (CECIT 2020), Shenzhen, China, Dec. 26-28, 2020.
34. Technical Committee Member, The 10th IEEE PES International Innovative Smart Grid Technologies Conference-Asia (ISGT-Asia 2020), Perth, Australia, Nov. 23-27, 2020.
35. Technical Committee Member, International Conference on Smart Grids and Energy Systems (SGES 2020), Perth, Australia, Nov. 23-26, 2020.
36. Technical Committee Member, The 3rd International Conference on Advanced Mechanical and Electrical Engineering (AMEE 2020), Chongqing, China, Nov. 5-8, 2020.
37. Technical Committee Member, The 3rd International Conference on Renewable Energy and Power Engineering (REPE 2020), Edmonton, Canada, Oct. 9-11, 2020.
38. Technical Committee Member, The 8th International Conference on Smart Grid and Clean Energy Technologies (ICSGCE 2020), Sarawak, Malaysia, Oct. 4-7, 2020.
39. Technical Committee Member, The 3rd International Conference on Electronics and Electrical Engineering Technology (EEET 2020), Kitakyushu, Japan, Sept. 27-29, 2020.
40. Technical Committee Member, The 4th International Conference on Measurement Instrumentation and Electronics (ICMIE 2020), Chengdu, China, Sept. 18-20, 2020.
41. Technical Committee Member, The 3rd International Conference on Electrical Engineering and Green Energy (CEEGE 2020), Munich, Germany, June 27-29, 2020.
42. Technical Committee Member, The 4th International Conference on Energy Science and Electrical Engineering (ICESEE 2020), Prague, Czech Republic, June 22-24, 2020.
43. Technical Committee Member, International Conference on Electronics & Electrical Engineering (ICEEE Dubai 2020), Dubai, United Arab Emirates, June 8-10, 2020.
44. Technical Committee Member, Global 2020 Congress on Electrical Engineering (GC-ElecEng 2020), Valencia, Spain, May 29-31, 2020.

45. Technical Committee Member, The 3rd International Conference on Energy, Electrical and Power Engineering (CEEPE 2020), Chongqing, China, Apr. 24-26, 2020.
46. Technical Committee Member, The 7th International Conference on Electrical and Electronics Engineering (ICEEE 2020), Antalya, Turkey, Apr. 14-16, 2020.
47. Technical Committee Member, The 10th International Conference on Power, Energy and Electrical Engineering (CPEEE 2020), Tokyo, Japan, Feb. 18-20, 2020.

## Memberships

1. Institute of Electrical and Electronics Engineers (IEEE), US, Senior Member, 2022-Present.
2. IEEE Industrial Electronics Society (IES), US, Member, 2022-Present.
3. IEEE Power & Energy Society (PES), US, Member, 2020-Present.
4. IEEE Young Professionals, US, Member, 2020-Present.
5. Institution of Engineering and Technology (IET), UK, Member, 2020-present.
6. The International Council on Large Electric Systems (CIGRE), France, Member, 2020-Present.
7. Chinese Society for Electrical Engineering (CSEE), P. R. China, Member, 2020-Present.
8. Beijing Electrical Engineering Society, P. R. China, Member, 2020-Present.
9. National Technical Committee of Measuring Relays and Protection Equipment Standardization, P. R. China, Member, 2017-Present.



## PROJECTS

1. Research on Cascading Faults in Large-Scale Hybrid AC/DC Grids, Funded by National Natural Science Foundation of China (NSFC) (52150410399), Jan. 2022- Dec. 2023, Presided.
2. Research on Fault Evolution Mechanism and New Protection Principal Theory of AC-DC Power Grid with Hybrid DC, Funded by National Natural Science Foundation of China (NSFC) (U2066210), Jan. 2021- Dec. 2024, Participated.
3. Research on Fault Characteristics and Relay Protection Adaptability of Kunliulong Multi-Terminal Hybrid DC Transmission Line, Funded by China Southern Power Grid (CGYKJXM20180540), Nov. 2019- Nov. 2021, Participated.
4. Energy Management and Power Quality Monitoring Framework for Smart Building Using IoT, Funded by Fundamental Research Grant Scheme (FRGS) of Malaysia (FRGS/1/2021/TK0/UTM/02/12), Sept. 2021- Sept. 2024, Participated.
5. Research on Blackout Prevention Mechanism Caused by Cascading Failure of Large-Scale AC-DC Hybrid Power Grid, Funded by Fundamental Research Funds for the Central Universities (2019RC051), Oct. 2019- Sept. 2023, Presided.



## KEYNOTE SPEECHES AND INVITED TALKS

1. Keynote Speech, Improvement of Capacitor-Commutated-Converter-Based and Fault-Current-Limiting-Based Commutation Failure Prevention Approaches in HVDC Transmission Networks, 2021 International Conference on Power Electronics and Power Transmission (ICPEPT 2021), Xi'an, China, Oct. 15-17, 2021.
2. Keynote Speech, Progress and Problems in Commutation Failure Prevention Techniques for LCC-HVDC Systems, 2021 IEEE International Conference on Electrical Engineering and Mechatronics Technology (ICEEMT 2021), Qingdao, China, July 2-4, 2021.
3. Keynote Speech, Development of an Integrated Control and Protection Scheme to Inhibit Blackouts Caused by Cascading Fault in Large-Scale Hybrid AC/DC Power Grids, International Conference on Control Science and Electric Power Systems (CSEPS 2021), Shanghai, China, May 28-30, 2021.
4. Keynote Speech, 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.
5. 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.
6. 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.



## Books

1. Microgrids and Active Distribution Networks (In Persian), 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), 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. **Sohrab Mirsaedi**, Mahmuda Rahman, Jinghan He, Dalila Mat Said, Meng Li, and Xinzhou Dong, "Comparison of Different Power Flow Techniques for Bus Vulnerability Assessment Against Symmetrical Faults Using Bus Impedance Matrix," *International Journal of Electrical Power & Energy Systems*. (ISSN: 0142-0615, IF: 4.630, Submitted).
2. **Sohrab Mirsaedi**, Subash Devkota, Dimitrios Tzelepis, Meng Li, Xiaojun Wang, Dalila Mat Said, Charalambos Konstantinou, Kashem M. Muttaqi, Jinghan He, and Xinzhou Dong, "A Review on Optimization Objectives for Power System Operation Improvement Using FACTS Devices," *IEEE Systems Journal*. (ISSN: 1932-8184, IF: 3.931, Submitted)
3. **Sohrab Mirsaedi**, Alice Giramata, Dimitrios Tzelepis, Meng Li, Xiaojun Wang, Dalila Mat Said, Jinghan He, and Xinzhou Dong, "An Introspective Review on Commutation Failure Inhibition Strategies in LCC-HVDC Transmission Networks," *IEEE Systems Journal*. (ISSN: 1932-8184, IF: 3.931, Submitted)
4. Dimitrios Tzelepis, **Sohrab Mirsaedi**, Adam Dyśko, Qiteng Hong, Jinghan He, and Campbell Booth, "Intelligent Fault Location in MTDC Networks by Recognizing Patterns in Hybrid Circuit Breaker Currents During Fault Clearance Process," *IEEE Transactions on Industrial Informatics*, vol. 17, issue 5, pp. 3056-3068, May 2021. DOI: 10.1109/TII.2020.3003476. (ISSN: 1551-3203, IF: 10.215, SCI: WOS: 000622100800007)
5. **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: 6.153, SCI: WOS: 000595580000019)
6. 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: 4.630, SCI: WOS: 000491636300054)
7. **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: 8.236, SCI: WOS: 000490858500029)
8. **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: 4.131, SCI: WOS: 000487533200019)
9. **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: 6.153, SCI: WOS: 000469912200019)
10. 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: 4.630, SCI: WOS: 000458221700038)
11. **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: 6.153, SCI: WOS: 000451907000019)
12. **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: 14.982, SCI: WOS: 000434917700008)
13. **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: 14.982, SCI: WOS: 000370456000064)

14. **Sohrab Mirsaiedi**, 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: 14.982, SCI: WOS: 000369462100001)
15. **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: 14.982, SCI: WOS: 000339533000063)
16. **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: 4.630, SCI: WOS: 000333779000033)

#### Non-First Author

1. Geye Lu, Dayong Zheng, Qinghao Zhang, **Sohrab Mirsaiedi**, and Pinjia Zhang, "Detection and Location Approach to Incipient Grounding Defect in Transformer Winding Based on Sequence Voltage Ratios at PV Inverter Switching Frequency," *IEEE Transactions on Industrial Electronics*. (ISSN: 0278-0046, IF: 8.236, Submitted)
2. Jinghan He, Jiaying Ning, Meng Li, Chenguang Liang, Yin Xu, and **Sohrab Mirsaiedi**, "Voltage Integral Ratio Based Adaptive Reclosing Scheme for True Bipolar Flexible HVDC System," *International Journal of Electrical Power & Energy Systems*. (ISSN: 0142-0615, IF: 4.630, Published as Early Access)
3. Chenguang Liang, Meng Li, Dahai Zhang, Ming Nie, **Sohrab Mirsaiedi**, Yin Xu, Jinghan He, and Yiping Luo, "Waveform Difference Based Adaptive Restart Strategy for LCC-MMC Hybrid DC System," *IEEE Transactions on Power Delivery*. (ISSN: 0885-8977, IF: 4.131, Published as Early Access)
4. Dahai Zhang, Chenguang Liang, Meng Li, Yiping Luo, Keao Chen, **Sohrab Mirsaiedi**, and Jinghan He, "Voltage frequency-based adaptive reclosing strategy for flexible DC power grids," *International Journal of Electrical Power & Energy Systems*, vol. 131, 107164, Oct. 2021. DOI: 10.1016/j.ijepes.2021.107164. (ISSN: 0142-0615, IF: 4.630, SCI: WOS: 000663436100001)
5. Dimitrios Tzelepis, Vasileios Psaras, Eleni Tsotsopoulou, **Sohrab Mirsaiedi**, Adam Dyśko, 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: 3.367, SCI: WOS: 000590432100001)
6. 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, July 2019. DOI: 10.1109/TSG.2018.2866487. (ISSN: 1949-3053, IF: 8.960, SCI: WOS: 000472577500104)
7. 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: 4.630, SCI: WOS: 000430770600045)
8. Dimitrios Tzelepis, Adam Dyśko, 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, Apr. 2018. DOI: 10.1016/j.ijepes.2017.10.040. (ISSN: 0142-0615, IF: 4.630, SCI: WOS: 000424720900031)

SCI: Q2 Jnls

#### First or Corresponding Author

##### Non-First Author

1. Keao Chen, Meng Li, **Sohrab Mirsaiedi**, and Jinghan He, "A Composite Pilot Protection for Flexible HVDC Grids Considering the Impact of Converter Blocking," *CSEE Journal of Power and Energy Systems*. (ISSN: 2096-0042, IF: 3.938, Submitted)
2. Yongjie Zhang, Xiaojun Wang, Yiping Luo, Dahai Zhang, **Sohrab Mirsaiedi**, and Jinghan He, "A High Impedance Fault Detection Method Based on Novel Attention Mechanism and Object Detection," *CSEE Journal of Power and Energy Systems*. (ISSN: 2096-0042, IF: 3.938, Published as Early Access)
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2. **Sohrab Mirsaiedi**, Subash Devkota, Dimitrios Tzelepis, Dalila Mat Said, Meng Li, Xiaojun Wang, Pei Zhang, and Jinghan He, "Optimization of FACTS Devices: Classification, Recent Trends, and Future Outlook," *The 4th International Electrical and Energy Conference (CIEEC 2021)*, Wuhan, China, May 28-30, 2021. (EI)
3. Alaa Omran, Dalila Mat Said, Siti Maherah Hussin, **Sohrab Mirsaiedi**, and Yaser Abid, "An Intelligent Classification Method of Series Arc Fault Models Using Deep Learning Algorithm," *International Conference on Power and Energy (PECon2020)*, Penang, Malaysia, Dec. 7-8, 2020. (EI)
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5. **Sohrab Mirsaiedi**, Jinghan He, and Xinzhou Dong, and Dalila Mat Said, "A Fault Current Limiting Approach for Commutation Failure Prevention in LCC-HVDC Transmission Systems," *IEEE Power & Energy Society General Meeting (PESGM 2020)*, Montreal, Canada, Aug. 2-6, 2020. (EI-Presented as Selected Transaction Paper)
6. **Sohrab Mirsaiedi**, Jinghan He, and Xinzhou Dong, "Mechanism and Risk Areas of Cascading Faults: A Newly Emerging Fault Type in Large-Scale Hybrid AC/DC Power Grids," *The 8th International Conference on Advanced Power System Automation and Protection (APAP 2019)*, Xi'an, China, Oct. 21-24, 2019. (EI)
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## GRADUATE ADVISING

1. M.Sc. Thesis, Mahmuda Rahman, An Artificial Neural Network Based Protection Strategy for LCC-HVDC Systems, Beijing Jiaotong University (BJTU), to be Completed in 2024.
2. M.Sc. Thesis, Amit Kumar, Accurate Modeling of Commutation Process in Line Commutated Converters, Beijing Jiaotong University (BJTU), to be Completed in 2024.
3. M.Sc. Thesis, Alejandro Zavalata, Cascading Fault Prediction in Hybrid AC/DC Grids Using Pattern Recognition, Beijing Jiaotong University (BJTU), to be Completed in 2023.
4. 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.
5. 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.
6. B.Sc. Graduation Project, Yuxi Cai, Optimal Placement of VAR Compensators for Commutation Reliability Enhancement in Large-Scale Hybrid AC/DC Grids, Beijing Jiaotong University (BJTU), to be Completed in 2022.
7. B.Sc. Graduation Project, Fuxiang Shang, An Artificial Neural Network based Strategy for Commutation Failure Prediction in LCC-HVDC Networks, Beijing Jiaotong University (BJTU), to be Completed in 2022.
8. B.Sc. Graduation Project, Mahmuda Rahman, Comparison of Different Load Flow Techniques for Bus Vulnerability Assessment against Symmetrical Faults, Beijing Jiaotong University (BJTU), 2021.
9. 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), 2021. (2021 Excellent Graduation Project Award)
10. B.Sc. Graduation Project, Hanzhang Liu, Development of an Improved Solid-State Fault Current Limiter, Beijing Jiaotong University (BJTU), 2020.

11. B.Sc. Graduation Project, Xingyu Wu, A Non-Communication protection Scheme for Microgrids, Beijing Jiaotong University (BJTU), 2020.
12. B.Sc. Graduation Project, Ziyue Huang, Commutation Failure Mitigation in HVDC Transmission Lines, Beijing Jiaotong University (BJTU), 2020.

## “ REFERENCES

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