

## **International and National Refereed Conference Papers:**

1. A. S. Soliman, S. M. Sajjad Hossain Rafin and O. A. Mohammad, "Intelligent Bi-Directional AC-DC-AC Power Converter Control for Hybrid ACDC Power Sharing in DC Microgrids Applications" 2023 IEEE Industry Applications Society Annual Meeting (IAS), Nashville, TN, USA. (in press)
2. S M S. H., Rafin, H. Hussein, and O. Mohammed, "An Introduction to Power Electronics Design Methodology.", IEEE Design methodologies conference 2023, Miami, FL, USA. (in press)
3. A. Aghmadi, O. Ali, and O. Mohammed, " Dynamic Pulsed Load Mitigation in PV-Battery-Supercapacitor Systems: A Hybrid PI-NN Controller Approach," 2023 IEEE Design Methodologies Conference, Miami, USA, 2023.
4. A. Aghmadi, O. Ali, and O. Mohammed, " Enhancing DC Microgrid Stability under Pulsed Load Conditions through Hybrid Energy Storage Control Strategy," 2023 IEEE Industry Application Society Annual Meeting, Nashville, Tennessee, USA, 2023.
5. M. S. Abdelrahman, Hossam Hussein, and O. A. Mohammed, "Container-based Platform for Edge-Computing in Energy System Applications". Under review in IEEE Power and Energy Society GM2024
6. S M Sajjad Hossain Rafin, Q. Ali and O. A. Mohammed, "Hybrid Sub-Harmonic Synchronous Machines Using Series and Parallel Consequent Permanent Magnet," 2023 IEEE Energy Conversion Congress and Exposition (ECCE), Nashville, TN, USA, 2023, pp. 4163-4167, doi:10.1109/ECCE53617.2023.10362397.
7. H. Hussein, A. Donekal, A. Aghmadi, S M S. H., Rafin, and O. Mohammed, "State of charge estimation using data-driven models for inverter-based systems." IEEE Design methodologies conference 2023, Miami, FL, USA. (in press)
8. F. F. M. El-Sousy, M. M. Amin, A. S. Soliman and O. A. Mohammed, "Robust Ultra-Local Model Control for Single-Axis Servomechanism Actuated Through PMSM Drive Via Optimal Extended State Observer" 2023 IEEE Industry Applications Society Annual Meeting (IAS), Nashville, TN, USA. (in press)
9. Ibtissam Kharchouf, and O. A. Mohammed, "CHIL Testbed of a Distributed Consensus Multi-Agent System Control Under DoS Attacks", in 2024 IEEE PES General Meeting, Seattle, Washington, USA, July, 2024, pp. 1-5. (Under Review)
10. Ibtissam Kharchouf, Mahmoud. S. Abdelrahman, and O. A. Mohammed, "ANN-Based Secure Control of Islanded Microgrid Under False Data Injection Cyber-Attack", in 2023 IEEE IAS Annual Meeting, Nashville, Tennessee, USA, Oct. 2023, pp. 1-6. (Accepted for Publication)
11. A. Aghmadi, H. Hussein and O. A. Mohammed, "Enhancing Energy Management System for a Hybrid Wind Solar Battery Based Standalone Microgrid," 2023 IEEE International Conference on Environment and Electrical Engineering and 2023 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 2023, pp. 1-6, doi: 10.1109/EEEIC/ICPSEurope57605.2023.10194769.
12. A. S. Soliman, S. M. Sajjad Hossain Rafin and O. A. Mohammad, "Inverter Based Resources Control for Islanded-Mode Microgrid-based Power System," 2023 IEEE 14th International Conference on Power Electronics and Drive Systems (PEDS), Montreal, QC, Canada, 2023, pp. 1-6, doi: 10.1109/PEDS57185.2023.10246672.
13. M. S. Abdelrahman, T. -L. Nguyen and O. A. Mohammed, "Stochastic Characterization-Based Performance Analysis of an Emulated Communication Network for Cyber-Physical Shipboard Power Systems," 2023 IEEE Electric Ship Technologies Symposium (ESTS), Alexandria, VA, USA, 2023, pp. 528-533, doi: 10.1109/ESTS56571.2023.10220513.
14. Mahmoud S. Abdelrahman, Hossam Hussein, and Osama A. Mohammed. " Rule-Based Power and Energy Management System for Shipboard Microgrid with HESS To Mitigate Propulsion and Pulsed Load Fluctuations ", IEEE- Greentech 2023.
15. O. Ali and O. Mohammed, "Frequency Stability Enhancement in Low-Inertia Power System Using an Optimal Control Scheme," 2023 IEEE International Conference on Environment and Electrical Engineering and IEEE Industrial and Commercial Power

- Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 2023
16. A. Aghmadi, H. Hussein, and O. A. Mohammed, "Energy Management System for a Hybrid Wind Solar Battery Based Standalone Microgrid," 2023 IEEE International Conference on Environment and Electrical Engineering and IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 2023
  17. S M Sajjad Hossain Rafin, Q. Ali and O. A. Mohammed, "Hybrid Sub-Harmonic Synchronous Machine Using Consequent Permanent Magnets," 2023 IEEE Energy Conversion Congress and Exposition (ECCE), Pittsburgh, PA, USA, 2023.
  18. S M Sajjad Hossain Rafin and O. A. Mohammed, "Sub-Harmonic Synchronous Machine Using a Dual Inverter and a Unique Three-Layer Stator Winding," 2023 IEEE International Magnetics Conference (INTERMAG), Sendai, Japan, 2023.
  19. A. Aghmadi and O. A. Mohammed, "Enhancing Solar Radiation Forecasting with Hybrid Ensemble Empirical Mode Decomposition and Machine Learning Techniques," 2023 IEEE International Conference on Environment and Electrical Engineering and IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 2023
  20. H. Hussein, A. Aghmadi and O. Mohammed, "Design and Analysis of voltage control for Islanded DC Microgrids Based on a Fuzzy-PI Controller," 2023 IEEE Green Technologies Conference, Denver, Colorado, USA.
  21. H. Hussein, A. E. -L. S. Ahmed, S. Mousa, E. -S. M. El-Refaie and O. A. Mohammed, "Impact and Mitigation of Electromagnetic Interference Between HVTL and Pipelines," SoutheastCon 2023, Orlando, FL, USA, 2023, pp. 485-489, doi: 10.1109/SoutheastCon51012.2023.10115180.
  22. M. M. Amin, A. S. Soliman, F. F. M. El-Sousy and O. A. Mohammed, "Inverter Based Resources Integration Through A Bridgeless Boost Converter for DC-Microgrid Applications" 2023 IEEE International Conference on Environment and Electrical Engineering and IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 2023
  23. M. S. Mollik, S. M. S. H. Rafin, A. A. Mamun, A. M. M. Irfeyy, A. S. Soliman and O. A. Mohammed, "Improved Performance of a Two-Stage Converter Topology Using Incremental Conductance-Based MPPT Design for Grid-Tied PV Systems," SoutheastCon 2023, Orlando, FL, USA, 2023, pp. 490-497, doi: 10.1109/SoutheastCon51012.2023.10115210.
  24. A. S. Soliman, R. Devine, D. Landi, S. M. S. H. Rafin, M. H. Cintuglu and O. A. Mohammed, "Towards A Secured SCADA Architecture: A DNP3 Test Case," SoutheastCon 2023, Orlando, FL, USA, 2023, pp. 663-669, doi: 10.1109/SoutheastCon51012.2023.10115208.
  25. A. S. Soliman, M. M. Amin, F. F. M. El-Sousy and O. A. Mohammad, "Intelligent Control Design for Grid-Connected Voltage Source Power Converters Based on Data- Driven Approach for DC Microgrid Applications," 2023 IEEE Conference on Power Electronics and Renewable Energy (CPERE), Luxor, Egypt, 2023, pp. 1-6, doi: 10.1109/CPERE56564.2023.10119590.
  26. S M Sajjad Hossain Rafin, Q. Ali and O. A. Mohammed, "Novel PM-Assisted Model of the Two-Layer Sub-Harmonic Synchronous Machines," 2023 International Applied Computational Electromagnetics Society Symposium (ACES), Monterey/Seaside, CA, USA, 2023, pp. 1-2, doi: 10.23919/ACES57841.2023.10114719.
  27. S M Sajjad Hossain Rafin, M. A. Haque, R. Islam and O. A. Mohammed, "A Review of Power Electronic Converters for Electric Aircrafts," 2023 Fourth International Symposium on 3D Power Electronics Integration and Manufacturing (3D-PEIM), Miami, FL, USA, 2023, pp. 1-8, doi: 10.1109/3D-PEIM55914.2023.10052535.
  28. S M Sajjad Hossain Rafin, R. Islam and O. A. Mohammed, "Power Electronic Converters for Wind Power Generation," 2023 Fourth International Symposium on 3D Power Electronics Integration and Manufacturing (3D-PEIM), Miami, FL, USA, 2023, pp. 1-8, doi: 10.1109/3D-PEIM55914.2023.10052364.
  29. S M Sajjad Hossain Rafin, R. Ahmed and O. A. Mohammed, "Wide Band Gap Semiconductor Devices for Power Electronic Converters," 2023 Fourth International

- Symposium on 3D Power Electronics Integration and Manufacturing (3D-PEIM), Miami, FL, USA, 2023, pp. 1-8, doi: 10.1109/3D-PEIM55914.2023.10052586.
30. S M Sajjad Hossain Rafin, R. Islam and O. A. Mohammed, "Overview of Power Electronic Converters in Electric Vehicle Applications," 2023 Fourth International Symposium on 3D Power Electronics Integration and Manufacturing (3D-PEIM), Miami, FL, USA, 2023, pp. 1-7, doi: 10.1109/3D-PEIM55914.2023.10052532.
  31. M. Abdelrahman, I. Kharchouf, and O. A. Mohammed, "ANN-TW Analysis Based Transmission Line Fault Identification and Location with High Penetration of Inverter-Based Resources," 2023 IEEE Green Technologies Conference (GreenTech), Denver, Colorado, USA.
  32. H. Hussein, A. Aghmadi, T. L. Nguyen and O. Mohammed, "Hardware-in-the-loop implementation of a Battery System Charging/Discharging in Islanded DC Micro-grid," SoutheastCon 2022, Mobile, AL, USA, 2022, pp. 496-500, doi: 10.1109/SoutheastCon48659.2022.9764035
  33. A. S. Soliman, M. M. Amin, F. F. M. El-Sousy and O. A. Mohammad, "Robust Artificial NN-based Tracking Control Implementation of Grid-Connected AC-DC Rectifier for DC Microgrids Performance Enhancement," IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society, Brussels, Belgium, 2022, pp. 1-6, doi: 10.1109/IECON49645.2022.9968426.
  34. M. M. Amin, A. S. Soliman, F. F. M. El-Sousy and O. A. Mohammed, "A Novel Front-End Single-Stage Bridgeless Boost Converter for Grid Integration of Multisource DC-Microgrid Applications," 2022 IEEE Industry Applications Society Annual Meeting (IAS), Detroit, MI, USA, 2022, pp. 1-6, doi: 10.1109/IAS54023.2022.9939763.
  35. I. Ibtissam, M. S. Abdelrahman, A. Alrashide and O. A. Mohammed, "Assessment of Protection Schemes and their Security under Denial of Service Attacks," 2022 IEEE International Conference on Environment and Electrical Engineering and 2022 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 2022, pp. 1-6.
  36. A. Alrashide, M. S. Abdelrahman, I. Kharchouf and O. A. Mohammed, "GNS3 Communication Network Emulation for Substation GOOSE Based Protection Schemes," 2022 IEEE International Conference on Environment and Electrical Engineering and 2022 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 2022, pp. 1-6.
  37. M. S. Abdelrahman, A. Kassem, A. A. Saad and O. A. Mohammed, "Real-Time Wide Area Event Identification and Analysis in Power Grid Based on EWAMS," 2022 IEEE Industry Applications Society Annual Meeting (IAS), 2022, pp. 1-13, doi: 10.1109/IAS54023.2022.9939904.
  38. I. Kharchouf, A. Alrashide, M. S. Abdelrahman and O. A. Mohammed, "On the Implementation and Security Analysis of Routable-GOOSE Messages Based on IEC 61850 Standard," 2022 IEEE International Conference on Environment and Electrical Engineering and 2022 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 2022, pp. 1-6, doi: 10.1109/EEEIC/ICPSEurope54979.2022.9854415
  39. M. Abdelrahman, I. Kharchouf, A. Alrashide, and O. A. Mohammed, "A Cyber-Physical Smart Grid Testbed for Validation of GOOSE Based Protection Strategies," in 2022 IEEE IAS Annual Meeting, Detroit, Michigan, USA, Oct. 2022, pp. 1-6. DOI: [10.1109/IAS54023.2022.9939820](https://doi.org/10.1109/IAS54023.2022.9939820)
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  41. H. H. Eldeeb, H. Zhao, and O. A. Mohammed, "Power Losses and Magnetic Flux Analysis of Vector Controlled Induction Motor with Stator Turn-to-Turn Fault," 2020 IEEE Applied Power Electronics Conference and Exposition (APEC), New Orleans, LA, USA, 2020.

42. H.H. Eldeeb, H. Zhao, and O. Mohammed, "Investigating the Influences of Stator Winding Faults on the Electromagnetic Behavior of DTC Drive system by FE Analysis", 19th Biennial Conference on Electromagnetic Field Computation (CEFC 2020), Pisa, Italy, April 2020.
43. H. H. Eldeeb, A. Berzoy, H. Zhao, and O. A. Mohammed "Model Based diagnosis of Stator winding insulation Failures in Direct Torque Controlled Asynchronous Motors using Kalman Filters" 2020 IEEE Energy Conversion Congress and Exposition (ECCE 2020), Detroit, MI, USA, 2020.
44. Nour Elsayad, Hadi Moradisizkoochi, and O. A. Mohammed, "Switched-Capacitor-Based Integrated Double-Input Single-Output DC-DC Converter for Electric Vehicle Applications", 15-19 March 2020, 2020 IEEE Applied Power Electronics Conference and Exposition (APEC), DOI: 10.1109/APEC39645.2020.9124430
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47. H. Zhao, X. Guo, H. H. Eldeeb, G. Xu, Y. Zhan, and O. Mohammed, "Design and Analysis of Inverter-Fed High-Speed Induction Motors with Closed Rotor Slots Taking Enclosure Effect into Account," 2020 IEEE Applied Power Electronics Conference and Exposition (APEC), New Orleans, LA, USA, 2020.
48. H. Zhao, H.H. Eldeeb, and O. Mohammed, "Finite Element Analysis on Vibration and Noise Performance of Cage Induction Motors with Non-Skewed Asymmetrical Rotor Bars", 19th Biennial Conference on Electromagnetic Field Computation (CEFC 2020), Pisa, Italy, April 2020.
49. J. Ge, H. H. Eldeeb, K. Liu, J. Kang, H. Zhao and O. Mohammed, "Optimal Range of Coupling Coefficient of Loosely Coupled Transformer Considering System Resistance," 2020 International Applied Computational Electromagnetics Society Symposium (ACES), Monterey, CA, USA, 2020.
50. Aljohani, T., Saad, A. and Mohammed, O (2020, June). On the Real-Time Modeling of Voltage Drop and Grid Congestion Due to the Presence of Electric Vehicles on Residential Feeders. In 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC/I&CPS Europe).
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52. H. Zhao, Y. Wang, H. H. Eldeeb, Y. Zhan, G. Xu and O. A. Mohammed," Design of Loosely Coupled Transformer of Wireless Power Transfer for Higher Misalignment Tolerance of System Efficiency" 2019 IEEE Energy Conversion Congress and Exposition (ECCE), Baltimore, MD, USA, 2019, pp. 4569-4574
53. H. H. Eldeeb, A. Berzoy, A. A. Saad and O. A. Mohammed, "On-line Monitoring of Stator Inter-Turn Failures in DTC driven Asynchronous Motors using Mathematical Morphological Gradient," 2019 IEEE Applied Power Electronics Conference and Exposition (APEC), Anaheim, CA, USA, 2019, pp. 1018-1023.
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- Congress and Exposition (ECCE), Baltimore, MD, USA, 2019, pp. 339-344.
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  58. H. Zhao, C. Chu, H. H. Eldeeb, Y. Zhang, G. Xu and O. Mohammed, "Optimal Design of High-speed Solid Rotor Cage Induction Motors Considering Ferromagnetic Materials Behavior and Manufacturing Process" 2019 54th IEEE Industry Applications Society Annual Meeting (IAS), Baltimore, MD, USA, 2019, pp. 1-8
  59. Elhassane Margoum, El, Hassan Mharzi, Samy Faddel, Ahmed Saad, and Osama Mohammed. "Coordinated Control Scheme for Electric Vehicles Connected to Droop-Controlled Microgrids." In 2019 IEEE Transportation Electrification Conference and Expo (ITEC), pp. 1-6. IEEE, 2019
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  62. S. Faddel, M. E. Hariri, A. A. Saad and O. Mohammed, "Intelligent Power Management for the Hybrid Energy Storage of the Ship Power System," 2019 IEEE Industry Applications Society Annual Meeting, Baltimore, MD, USA, 2019, pp. 1-8. doi: 10.1109/IAS.2019.8911947.
  63. Samy Faddel, Mohamad El Hariri and O. Mohammed, "Co-Simulation of Improved AIMD Algorithm for Decentralized Charging of Electric Vehicles," the 19th International Conference on Environment and Electrical Engineering 2019 (EEEIC), Genoa, Italy, In Press.
  64. Samy Faddel, Tarek Youssef, Ahmed T. Elsayed and O. Mohammed, "Experimental Verification of the Effect of Uncoordinated Charging of Electric Vehicles on Power Grids," the 2019 IEEE PES Innovative Smart Grid Technologies Conference, Washington D.C, USA, In Press.
  65. H. Moradisizkoochi, N. Elsayad, and O. A. Mohammed, "Ultra-High Step-Up DC/DC Converter Based on Dual Coupled Inductors with Low Voltage Stress and Input Current Ripple for Renewable Energy Applications," Accepted in the 34th Annual IEEE Applied Power Electronics Conference & Exposition (APEC), Anaheim, California, USA, 2019.
  66. Nour Elsayad, Hadi Moradisizkoochi, and Osama Mohammed, "A Study on a Three-Level Flying Capacitor Boost Converter with an Integrated LC2D Output Network for Universal Input Voltage Applications," Accepted in the IEEE Applied Power Electronics Conference and Exposition (APEC), Anaheim, California, USA, 2019.
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69. Samy Faddel, Abla O. Hariri, Mohamad El Hariri and O. Mohammed, "A Non-Discriminatory Autonomous Controller for EV Charging in Microgrids," SoutheastCon 2018, St. Petersburg, FL, USA, 2018, pp. 1-7.
70. H. H. Eldeeb, A. Berzoy and O. Mohammed, "Comprehensive Investigation of Harmonic Signatures Resulting from Inter-Turn Short-Circuit Faults in DTC Driven IM Operating in Harsh Environments," 2018 XIII International Conference on Electrical Machines (ICEM), Alexandroupoli, 2018, pp. 2579-2585. 25 October 2018.
71. H. H. Eldeeb and O. A. Mohammed, "Control and Voltage Stability of A Medium Voltage DC Micro-Grid Involving Pulsed Load," 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Palermo, 2018, pp. 1-6
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73. Samy Faddel, Ahmed A. Saad and O. Mohammed, "Decentralized Energy Management of Hybrid Energy Storage on MVDC Shipboard Power System," 2018 IEEE Industry Application Annual meeting, Portland, OR, USA, 2018, pp. 1-7.
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97. M. M. Esfahani, M. H. Cintuglu and O. A. Mohammed, "Optimal real-time congestion management in power markets based on particle swarm optimization," 2017 IEEE Power & Energy Society General Meeting, Chicago, IL, 2017, pp. 1-5.
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