

International and National Refereed Conference Papers:

1. 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.
2. 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.
3. 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.
4. 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
5. H. H. Eldeeb, H. Zhao, and O. Mohammed " Time- Frequency Domain Based Diagnostics of Turn-to-Turn Failures in Vector Controlled Induction Motors using Dispersal Magnetic Field", 2020 IEEE Energy Conversion Congress and Exposition (ECCE 2020), Detroit, MI, USA, 2020.
6. Haisen Zhao, Xinglan Guo, Xin Dai, Hassan Eldeeb, Yang Zhan, Guorui Xu and Osama Mohammed, "Improved Rotor Bar Structure in High-Voltage High-Power Induction Motors to Eliminate Local thermal Spot and Avoid Broken Bar faults",2020 IEEE Energy Conversion Congress and Exposition (ECCE 2020), Detroit, MI, USA, 2020.
7. 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.
8. 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.
9. 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.
10. 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).
11. H. Moradisizkoochi, N. Elsayad and O. A. Mohammed, "A Bipolar DC-DC Converter with Wide Voltage-Gain Range for Energy Storage Integration in Ship Power Systems," 2019 IEEE Electric Ship Technologies Symposium (ESTS), Washington, DC, USA, 2019, pp. 511-517.
12. 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
13. 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.
 14. H. H. Eldeeb, H. Zhao, O. Mohammed, " Wavelet Transformation-Based Diagnosis of Turn-to-Turn Faults in Vector Control Drive system " 2019 IEEE Energy Conversion Congress and Exposition (ECCE), Baltimore, MD, USA, 2019, pp. 339-344.
 15. H. H. Eldeeb, A. Berzoy and O. Mohammed, "Radiated EM Flux Based Diagnostic Approach for Stator Insulation Failures in Inverter Fed Motors," 2019 International Applied Computational Electromagnetics Society Symposium (ACES), Miami, FL, USA, 2019, pp. 1-2
 16. H. H. Eldeeb, H. Zhao, and O. Mohammed," Time-Domain Frequency-Domain Based Detection of Stator Incipient Failures in Vector Controlled Machines using Dispersal Magnetic Field", 22nd International Conference on the Computation of Electromagnetic Fields (COMPUMAG 2019), Paris, France, July 2019, pp.1-2
 17. H. Zhao, H. H. Eldeeb, Y. Zhan, O. A. Mohammed, "Online Estimation of Rotor Temperature in Induction Motors Based on Parameter Identification"2019 IEEE Energy Conversion Congress and Exposition (ECCE), Baltimore, MD, USA, 2019, pp. 1629-1634.
 18. 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
 19. 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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 22. 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
 23. 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.
 24. 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.

25. 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.
26. 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.
27. Nour Elsayad, Hadi Moradisizkoochi, and Osama Mohammed, "Analysis and Design of a High Step-Up Transformerless DC-DC Converter with an Integrated L2C3D2 Network," IEEE Applied Power Electronics Conference and Exposition (APEC), Anaheim, California, USA, 2019.
28. Nour Elsayad, Hadi Moradisizkoochi, and Osama Mohammed, "A Three-Level Boost Converter with an Extended Gain and Reduced Voltage Stress using WBG Devices," IEEE 6th Workshop on Wide Bandgap Power Devices and Applications (WiPDA 2018), Atlanta Georgia.
29. 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.
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32. A. Berzoy, H. H. Eldeeb and O. Mohammed, "Online fault detection of stator winding faults in IM driven by DTC using the off-diagonal term of the symmetrical component impedance matrix," 2018 IEEE Applied Power Electronics Conference and Exposition (APEC), San Antonio, TX, 2018, pp. 2482-2487.
33. 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.
34. H. Moradisizkoochi, N. Elsayad and O. A. Mohammed, "A Double-Input Three-Level Quasi-Z Source Converter Using GaN Switches with Reduced Voltage Stress for Multiple Energy Interface," SoutheastCon 2018, St. Petersburg, FL, 2018, pp. 1-7.
35. H. H. Eldeeb, A. Berzoy and O. Mohammed, "Stator Fault Detection on DTC Driven IM via Magnetic Signatures aided by 2DFEA Co-simulation," 2018 IEEE Conference on Electromagnetic Field Computation (CEFC), Hangzhou, China, 2018, pp. 1-1.
36. H. H. Eldeeb, A. A. Saad, A. Berzoy and O. Mohammed, "Mathematical Morphology Based Diagnosis of Stator Incipient Faults in Asynchronous Motor Drive System Using Electromagnetic Signatures," 2018 IEEE Conference on Electromagnetic Field Computation (CEFC), Hangzhou, China, 2018, pp. 1-1.
37. H. H. Eldeeb, A. Berzoy A. A. Saad, and O. 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, 2018, [Accepted]
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40. A. F. Ebrahim, A. A. S. Mohamed, A. A. Saad and O. A. Mohammed, "Vector Decoupling Control Design Based on Genetic Algorithm for a Residential Microgrid System for Future City Houses at Islanding Operation," SoutheastCon 2018, St. Petersburg, FL, 2018, pp. 1-5.
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52. H. F. Habib, M. M. Esfahani and O. Mohammed, "Development of Protection Scheme for Active Distribution Systems with Penetration of Distributed Generation," SoutheastCon 2018, St. Petersburg, FL, 2018, pp. 1-7.
53. M. Mahmoudian Esfahani, Abla Hariri and O. Mohammed, "Game-theory-based Real-Time Inter-Microgrid Market Design Using Hierarchical Optimization Algorithm" IEEE Power and Energy Society General Meeting, Portland Oregon, August 2018.

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56. Christopher R. Lashway, Alberto Berzoy, Nour Elsayad, and Osama Mohammed "Breakdown Voltage Assessment of GaN HEMT Devices through Physics-Based Modeling", ACES 2017.
57. 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.
58. S. Faddel, T. Youssef, A. Elsayed and O. Mohammed, "An Automated Charger for Large Scale Adoption of Electric Vehicles," in IEEE Transactions on Transportation Electrification. doi: 10.1109/TTE.2018.2850526, 1-5 Oct. 2017, DOI: 10.1109/IAS.2017.8101709
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60. H. Moradisizkoochi, N. Elsayad and O. A. Mohammed, "A resonant Bi-directional buck-boost converter with distributed voltage stress using eGaN HEMTs," 2017 IEEE 5th Workshop on Wide Bandgap Power Devices and Applications (WiPDA), Albuquerque, NM, 2017, pp. 143-147.
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62. O. A. Mohammed and C. Lashway, "Notice of Removal
Modeling and energy management of modern shipboard power systems," 2017 IEEE Energy Conversion Congress and Exposition (ECCE), Cincinnati, OH, 2017, pp. 1-129.
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