

International and National Refereed Conference Papers:

1. C.R. Lashway, A. Berzoy, N. Elsayad, O.A. Mohammed, "Breakdown Voltage Assessment of GaN HEMT Devices through Physics-Based Modeling," presented at the 2017 International Applied Computational Electromagnetics Society (ACES) Symposium, Firenze, Italy, 26-30 Mar 2017.
2. A. A. S. Mohamed, A. Berzoy, and O. A. Mohammed, "Physics-based FE model and analytical verification of bi-directional inductive wireless power transfer system," in 2016 IEEE/ACES International Conference on Wireless Information Technology and Systems (ICWITS) and Applied Computational Electromagnetics (ACES), 2016, pp. 1–2.
3. A. Hariri, M. El Hariri, A. El Sayed and O. A. Mohammed, "An Iterative Design Approach for Shielding of WPT Systems in Electric Vehicle Charging Applications," 2016 IEEE Vehicle Power and Propulsion Conference (VPPC), Hangzhou, 2016, pp.1-4. doi: 10.1109/VPPC.2016.7791613.
4. A. Hariri, A. Elsayed and O. A. Mohammad, "An integrated characterization model for the magnetic design of an EV charger's circular wireless power transfer pads," 2016 IEEE Conference on Electromagnetic Field Computation (CEFC), Miami, FL, 2016, pp. 1-1. doi: 10.1109/CEFC.2016.7816427
5. C.R. Lashway, O.A. Mohammed, "3DFEA for the Study of Lithium Ion Battery Voltage Behavior under Loading and Charging Conditions," presented at the 17th Biennial Conference on Electromagnetic Field Computation (CEFC 2016), Miami, FL, 15 Nov 2016.
6. C.R. Lashway, A. Elsayed, O.A. Mohammed, "Management Scheme for Parallel Connected Hybrid Energy Storage in Electric Vehicles," presented at the 2016 IEEE Power & Energy Society General Meeting (PES 2016), Boston, MA, 18 Jul 2016.
7. Hadi Moradisizkoohi a Quasi-Resonant Bi-Directional Buck-Boost Converter for Electric Vehicle Applications.
8. Mohammad M. Esfahani, Mehmet H. Cintuglu, and Osama A. Mohammed, "Optimal Real-Time Congestion Management in Power Markets Based on Particle Swarm Optimization" accepted for publication in the IEEE Power and Energy Society General Meeting (PESGM), 2017.
9. A. Berzoy, C. R. Lashway, H. Moradisizkoohi, and Osama A. Mohammed, "Breakdown Voltage Improvement and Analysis of GaN HEMTs through Field Plate Inclusion and Substrate Removal," in 2017 IEEE Compumag, 2017.
10. A. Berzoy, A. A. S. Mohamed, and O. A. Mohammed, "Stator Winding Inter-turn Fault in Induction Machines: Complex-Vector Transient and Steady-State Modelling," in 2017 IEEE IEMDC, 2017.
11. Alberto Berzoy, O. Mohammed, and J. Rengifo, "Fuzzy Predictive DTC of induction machines with reduced torque ripple and high performance operation," in 2016 IEEE Applied Power Electronics Conference and Exposition (APEC), 2016, pp. 3200–3206.
12. A. Berzoy, A. A. S. Mohamed, and O. Mohammed, "Design considerations and predictive direct current control of Active Regenerative Rectifiers for harmonic and current ripple reduction," in 2016 IEEE Applied Power Electronics Conference and Exposition (APEC), 2016, pp. 928–935.
13. A. Berzoy, A. A. S. Mohamed, and O. A. Mohammed, "Inter-turn short-circuit fault model for magnetically coupled circuits: A general study," in 2016 IEEE Industry Applications Society Annual Meeting, 2016, pp. 1–7.
14. A. S. Mohamed, Felipe G. N. de Almeida, and Osama Mohammed, "Steady-state Performance Assessment of Different Compensation Topologies in Bidirectional IWPT System for V2G Applications", IEEE VTC2016-Fall, 18 Sept 2016.
15. A. A. S. Mohamed, A. Berzoy, F. G. N. de Almeida, and O. Mohammed, "Steady-state performance assessment of different compensation topologies in two-way IWPT system

- for EV ancillary services," in 2016 IEEE Industry Applications Society Annual Meeting, 2016, pp. 1–8.
16. A. S. Mohamed, Alberto Berzoy, and Osama Mohammed, "Vehicle Side Predictive Power-Flow Controller of Bidirectional WPT system in EV Ancillary Services", IEEE IEEEIC 2016 conference, June 7, 2016.
 17. A. A. S. Mohamed, A. Berzoy and O. Mohammed, "Predictive active power-flow control of two-way wireless power transfer system in V2G services," 2016 IEEE 2nd Annual Southern Power Electronics Conference (SPEC), Auckland, New Zealand, 2016, pp. 1-6.
 18. A. A. S. Mohamed, A. Berzoy, and O. A. Mohammed, "Physics-Based Co-Simulation Platform for EMC Analysis of Two-Way Inductive WPT System in EV Applications," in 2016 IEEE Vehicle Power and Propulsion Conference (VPPC), 2016, pp. 1–6.
 19. A. A. S. Mohamed, F. G. N. de Almeida, and O. Mohammed, "Harmonics-based steady-state mathematical model of bidirectional inductive wireless power transfer system in V2G applications," in 2016 IEEE Transportation Electrification Conference and Expo (ITEC), 2016, pp. 1–6.
 20. A. A. S. Mohamed, A. Berzoy and O. Mohammad, "Magnetic design considerations of bidirectional inductive wireless power transfer system for EV applications," 2016 IEEE Conference on Electromagnetic Field Computation (CEFC), Miami, FL, USA, 2016, pp. 1-1.
 21. Hassan. H. Eldeeb and O. A. Mohammed, "Coordinated Power Management for the Integration of Active Distribution Networks with High PV Penetration into the Medium Voltage Grid," 2017 Ninth Annual IEEE Green Technologies Conference (GreenTech), Denver, CO, USA, 2017, pp. 254-259.
 22. Hassan H. Eldeeb, Abla O. Hariri, Christopher R. Lashway, and Osama A. Mohamed, "Optimal Sizing of Inverters and Energy Storage for Power Oscillation Limiting in Grid Connected Large Scale Electric Vehicle Park with Renewable Energy", 2017 IEEE Transportation electrification Conference and Expo (ITEC), Chicago, IL, USA, June 2017 (accepted)
 23. Hassan H. Eldeeb, Abla O. Hariri, and Osama A. Mohammed, "Coordinated Control for the Integration of a Large Scale Electric Vehicle Park with PV into the MV Grid". 2017 IEEE 17th International Conference on Environment and Electrical Engineering (EEEIC), Milan, Italy, June 2017 (Accepted).
 24. A. A. S. Mohamed, Siguang An, A. A. Marim, and O. Mohammed, "Coil Design Multi-Objective Optimization of Power Pad in WPT System for EV Applications," in 2017 International Conference on the Computation of Electromagnetic Fields (Compumag), Daejeon, Korea, June 18, 2017.
 25. A. Berzoy, A. A. S. Mohamed and O. Mohammed, "Impact of inter-turn short-circuit location on induction machines parameters through FE computations," 2016 IEEE Conference on Electromagnetic Field Computation (CEFC), Miami, FL, USA, 2016, pp. 1-1.
 26. Nour Elsayad, Osama Mohammed "A Cascaded High Frequency AC Link System with Reduced Switch count and Low-Voltage Ride-Through Capability for Large Scale PV Systems", PES general meeting, 2017.
 27. Nour Elsayad, Osama Mohammed "A Cascaded High Frequency AC Link System for a PV-Assisted Large-Scale EV fast charging station", ITECH 2017.
 28. Nour Elsayad, Osama Mohammed, "Adaline and Recursive Least Square Error Based Techniques for Submodule Voltage Monitoring for High frequency AC Link Systems", GreenTech 2017.

29. Hadi Moradisizkoohi, Nour Elsayad, and Osama Mohammed "A Multi-level Bi-Directional Buck-Boost Converter Using GaN Devices for Electric Vehicle Applications", ITECH 2017.
30. Ahmed T. Elsayed, Nour Elsayad, Osama Mohammed, "Pareto Based Optimal Sizing and Energy Storage Mix in Ship Power Systems", IAS general meeting 2016.
31. Samy Faddel, Ahmed A.S Mohamed, and Osama Mohammed, "Linear Autonomous Control of Electric Vehicles Charging in Distribution Systems," PES General Meeting 2017, Accepted.
32. Samy Faddel, and Osama Mohammed, "Automated Electric Vehicle Charger for Distributed Residential Demand Side Management," IEEE IAS Annual Meeting 2017, under review.
33. Samy Faddel, Ahmed T. Elsayed, and Osama Mohammed, "Bi-layer Multi-objective Optimal Sizing and Allocation of EV Parking Garage" IEEE IAS Annual Meeting 2017, under review.
34. Hany F. Habib, T. Youssef, M. H. Cintuglu and O. Mohammed, "A multi-agent based technique for fault location, isolation and service restoration," in IEEE Industry Applications Society Annual Meeting, Portland, OR, 2016, pp. 1-8, DOI: 10.1109/IAS.2016.7731975.
35. H. F. Habib and O. Mohammed, "Decentralized Multi-Agent System for Protection and the Power Restoration Process in Microgrids," 2017 Ninth Annual IEEE Green Technologies Conference (GreenTech), Denver, CO, USA, 2017, pp. 358-364. doi: 10.1109/GreenTech.2017.58
36. Hany F. Habib, Abla Hariri, and Osama Mohammed," Deployment of Electric Vehicles in an Adaptive Protection Technique for Riding through Cyber Attack Threats in Microgrids" in 17th International Conference on Environment and Electrical Engineering, Milan, Italy, 2017.
37. Mohamad El Hariri, Tarek A. Youssef, Hany F. Habib, and Osama Mohammed, "Online False Data Detection and Lost Packet Forecasting System Using Time Series Neural Networks for IEC 61850 Sampled Measured Values", in IEEE Innovative Smart Grid Technologies North America (IEEE ISGT 2017), Washington DC, USA, April 23-25 2017. Accepted.
38. Tarek A. Youssef, Mohamad El Hariri, Nicole Bugay, and Osama A. Mohammed, "IEC 61850: Technology Standards and Cyber-Security Threats," In Proceedings of the 16th IEEE International Conference on Environment and Electrical Engineering (EEEIC), Florence, Italy, 7–10 June 2016.
39. Ahmed. F. Ebrahim, Tarek A. Youssef, Osama A. Mohammed, "Power Quality Improvements for Integration of Hybrid AC/DC Nanogrids to Power Systems" IEEE Greentech 2017, Denver, Colorado, March 29 – 31, 2017.
40. Hany. F. Habib, Tarek Youssef, Mehmet. H. Cintuglu, and Osama Mohammed "A Multi-Agent Based Technique for Fault Location, Isolation and Service Restoration" IAS Annual Conference Accepted on 01 June 2016
41. Abla Hariri, Ahmed Elsayed, Osama A. Mohammad "An Integrated Characterization Model for the Magnetic Design of an EV Charger's Circular Wireless Power Transfer Pads", in IEEE CEFC 2016, 13-16 November, 2016.
42. Abla Hariri, Mohamad El Hariri, Ahmed El Sayed, O. A. Mohammed "An Iterative Design Approach for Shielding of WPT Systems in Electric Vehicle Charging Applications", in VPPC2016, October 2016
43. Sriharsha Etigowni, Mehmet Cintuglu, Maryam Kazerooni, Shamina Hossain, Pengfei Sun, Katherine Davis, Osama Mohammed, Saman Zonouz "Cyber-Air-Gapped Detection of Controller Attacks through Physical Interdependencies ", in International Conference on Smart Grid Communications, Sydney, Australia, August 2016

44. Luis Garcia Antonio, Ferdinand Brasser, Mehmet Hazar Cintuglu, Osama Mohammed, Ahmad-Reza Sadeghi, Saman Zonouz "Harvey: How to Backstab Your Industrial Control System with a Man-in-the-PLC" USENIX Security '16 HotCRP , February 2016
45. A. S. Mohamed, Alberto Berzoy and Osama A. Mohammed "Fuzzy Predictive DTC of Induction Machines with reduced Torque Ripple and High Performance Operation", in Applied Power Electronics Conference March 20 2016
46. A. S. Mohamed, Dueal Allen, Tarek Youssef, and Osama Mohammed, "Optimal Design of High Frequency H-Brigde Inverter for Wireless Power Transfer Systems in EV Applications", IEEE EEEIC 2016 conference, June 7, 2016.
47. A. S. Mohamed, Alberto Berzoy, and Osama Mohammed, "Physics-based FE Model and Analytical Verification of Bi-directional Inductive Wireless Power Transfer System", ACES 2016, March 13, 2016.
48. Alberto Berzoy, A. A. S. Mohamed and Osama Mohammed, "Design Considerations and Predictive Direct Current Control of Active Regenerative Rectifiers for Harmonic and Current Ripple Reduction", IEEE APEC2016, March 20, 2016.
49. A. S. Mohamed, and Osama Mohammed, "Harmonics-Based Steady-State Mathematical Model of Bi-directional Inductive Wireless Power Transfer System in V2G Applications", IEEE ITEC2016, June 27, 2016.
50. C.R. Lashway, O. A. Mohammed "3DFEA for the Study of Lithium Ion Battery Voltage Behavior under Loading and Charging Conditions", in 17th Biennial Conference on Electromagnetic Field Computation (CEFC 2016), 13-16 November, 2016
51. Ahmed Elsayed, Nour Elsayad, and O. A. Mohammed "Pareto Based Optimal Sizing and Mix of Energy Storage in Ship Power Systems with Considering Weight" IAS annual meeting October 2016
52. C.R. Lashway, A.T. Elsayed, O.A. Mohammed "Management Scheme for Parallel Connected Hybrid Energy Storage in Electric Vehicles" 2016 IEEE Power & Energy Society General Meeting (PES 2016) 17-21 Jul 2016
53. Christopher R. Lashway; Ahmed Elsayed; Tarek Yousef and Osama A. Mohammed "Voltage Analysis for Flywheel-Battery Based Energy Storage System", 31st Annual IEEE Applied Power Electronics Conference (APEC) March 2016.
54. Tarek Youssef, Mohamad El Hariri, Nicole Bugay, Osama Mohammed "IEC 61850: Technology Standards and Cyber-Security Threats" EEEIC 2016, April 1, 2016
55. C.R. Lashway, A.T. Elsayed, O.A. Mohammed, "DC Voltage Ripple Quantification for a Flywheel-Battery based Hybrid Energy Storage System" IEEE Applied Power Electronics Conference and Exposition (APEC), 23 Mar 2016
56. C.R. Lashway, G. Constant, J. Theogene, O.A. Mohammed, "A Real-time Circuit Topology for Battery Impedance Monitoring" SoutheastCon 2016, 30 Mar - 01 Apr 2016
57. C.R. Lashway, A.T. Elsayed, O.A. Mohammed, "DC Voltage Ripple Quantification for a Flywheel-Battery based Hybrid Energy Storage System" IEEE Applied Power Electronics Conference and Exposition (APEC), 23 Mar 2016
58. Mustafa Farhadi and Osama Mohammed. "Energy Storage System for High Power Applications" PP 1-7, IEEE IAS Meeting 2015.
59. Mustafa Farhadi and Osama Mohammed," Hybrid Energy Storage Systems for Transportation Electrification" ACEMP Turkey, 2-4 September 2015.
60. Mustafa Farhadi and Osama Mohammed," A New Protection for Multi-Bus DC Power Systems using an Event Classification Approach" PP 1-7 50th 2015 IEEE IAS Annual Meeting, Dallas, Texas, 18 -22 October 2015
61. Mehmet H. Cintuglu; Harold Martin and Osama Mohammed "An Intelligent multi agent framework for active distribution networks based on IEC 61850 and FIPA standards" Intelligent System Applications to Power Systems (ISAP), Page 1–6 DOI 10.1109/ISAP.2015.7325527, September,2015

62. Mehmet H. Cintuglu; and Osama Mohammed" Multiagent-based Decentralized operation of microgrids considering data interoperability" International Conference on Smart Grid Communications, November, 2015
63. Mehmet H. Cintuglu; Ricardo de Azevedo; Tan Ma and Osama Mohammed" Real-time experimental analysis for protection and control of Smart Substations" Innovative Smart Grid Technologies Latin America (ISGT LA), October, 2015
64. Mehmet H. Cintuglu; Tan Ma and Osama Mohammed" Aggregated Active Distribution Networks for Secondary Control of Power Systems" 2015 IEEE PES Meeting, 2015.
65. Mustafa Farhadi and Osama Mohammed," A New Protection for Multi-Bus DC Power Systems using an Event Classification Approach" 2015 IEEE IAS Annual Meeting.
66. Ahmed Elsayed; Tarek Yousef and Osama Mohammed, "Modelling and control of a Low Speed Flywheel Driving System for Pulsed Load Mitigation in DC Distribution Networks" 2015 IEEE IAS Meeting, October 2015
67. Mustafa Farhadi and Osama Mohammed," Hybrid Energy Storage Systems for Transportation Electrification" ACEMP Turkey, September 2015.
68. Mehmet H. Cintuglu; Harold Martin and Osama Mohammed "An Intelligent multi agent framework for active distribution networks based on IEC 61850 and FIPA standards" Intelligent System Applications to Power Systems (ISAP), September,2015.
69. Tan Ma ;Mehmet H. Cintuglu; and Osama Mohammed "Control of Hybrid AC/DC Microgrid Involving Storage, Renewable energy and Pulsed loads" Intelligent System Applications to Power Systems (ISAP), September,2015
70. Mustafa Farhadi and Osama Mohammed. "Energy Storage System for High Power Applications" 2015 IEEE IAS Meeting 2015.
71. Abla O. Hariri, Tarek Youssef, Ahmed Elsayed, Osama Mohammed, "Electromagnetic-Artificial Intelligent Computational Approach for Design Optimization of a Wireless Power Transfer Link" IEEE COMPUMAG 2015, Montreal, Quebec, Canada, July 2015
72. Youssef, T.A.; Elsayed, A.T.; Mohammed, O.A., "DDS based interoperability framework for Smart Grid Testbed infrastructure," in *Environment and Electrical Engineering (EEEIC), 2015 IEEE 15th International Conference on* , vol., no., pp.219-224, 10-13 June 2015.
73. Mustafa Farhadi and Osama Mohammed, "Design and Hardware Implementation of Laboratory-Scale Hybrid DC power System for Educational Purposes"122th American Society for Engineering Education Annual Conference, ASEE, Seattle, WA, June 14 - 17, 2015.
74. Elsayed, A.T.; Mohammed, O.A., "A comparative study on the optimal combination of hybrid energy storage system for ship power systems," in *Electric Ship Technologies Symposium (ESTS), 2015 IEEE* , vol., no., pp.140-144, 21-24 June 2015
75. A. A. S. Mohamed, Alberto Berzoy and Osama Mohammed, "Control Parameters Optimization for PM DC Motor in Photovoltaic Applications", presented in IEEE IEMDC 2015 conference, May, 10, 2015.
76. Abla O. Hariri, Alberto Berzoy, A. A. S. Mohamed and Osama Mohammed, "Performance Evaluation of a WPT System using Coupled Electromagnetic-Circuit Solver in 3D FE Tool", IEEE Wireless Power Transfer conference 2015, May 13-15, 2015.
77. A. A. S. Mohamed, Alberto Berzoy, and Osama Mohammed, "Adaptive Transversal Digital Filter for Reference Current Detection in Shunt Active Power Filter" IEEE PES 2015 conference.
78. Mohamed, A.A.S.; Berzoy, A.; Mohammed, O.A., "Design analysis of adaptive digital filter for reference current detection in active power filter," in *SoutheastCon 2015* , vol., no., pp.1-7, 9-12 April 2015.

79. Farhadi, M.; Mohammed, O.A., "Hybrid DC Power System for Pulse Load Application: Design, Modeling and Operation," in *Green Technologies Conference (GreenTech), 2015 Seventh Annual IEEE*, vol., no., pp.152-157, 15-17 April 2015.
80. ElSayed, A.; Ebrahim, A.F.; Mohammed, H.; Mohammed, O.A., "Design and implementation of AC/DC active power load emulator," in *SoutheastCon 2015*, vol., no., pp.1-5, 9-12 April 2015
81. Cintuglu, M.H.; Youssef, T.A.; Elsayed, A.T.; Mohammed, O.A., "Frequency and voltage control of microgrids upon unintentional cascading islanding," in *SoutheastCon 2015*, vol., no., pp.1-6, 9-12 April 2015.
82. Alberto Berzoy, A. A. S. Mohamed and Osama Mohammed, "Optimizing Power Converter PCB Magnetic Design for Lower EMI Levels", IEEE ACES 2015 conference, March. 22, 2015.
83. A. Berzoy, A. A. S. Mohamed, and O Mohammed, "Optimum Positioning of Inductive Components on PCB Designs for EMI Reduction using a 3D Finite Elements and Genetic Algorithms" ACES 2015, Williamsburg, VA, March 2015.
84. C. Lashway, O.A. Mohammed, "Improved Estimation Methods for Lead Acid Utility Arrays for Microgrids," IEEE PES Conference on Innovative Smart Grid Technologies, Washington, DC, 17-20 Feb. 2015.
85. Cintuglu, M.H.; Mohammed Alihussein.; Elsayed, A.T.; O.A. Mohammed; "PMU Deployment on Active Distribution Networks for Hybrid AC/DC Microgrid Monitoring and Control". 6th Innovative Smart Grid Technologies Conference (ISGT North America), Washington, D.C., USA, 17-20 Feb 2015.
86. Mehmet H. Cintuglu, Ahmed Elsayed, and O. A. Mohammed, "Microgrid Automation Assisted by Synchronphasors," 6th Innovative Smart Grid Technologies Conference (ISGT North America), Washington, D.C., USA, 17-20 Feb 2015.
87. Ali Mazloomzadeh, Hazar Cintuglu, Osama Mohammed "Development and Evaluation of a Laboratory Based Phasor Measurement Devices". 6th Innovative Smart Grid Technologies Conference (ISGT North America), Washington, D.C., USA, 17-20 Feb 2015
88. Alberto Berzoy, A.A.S. Mohamed and Osama Mohammed, "Optimizing Power Converter PCB Magnetic Design for Lower EMI Levels", IGTE 2014 conference, Nov. 15, 2014.
89. Youssef, T.A.; Elsayed, A.T.; Berzoy, A.; Mohammed, O.A., "Power quality enhancement for nonlinear unbalanced loads through improved active power filter control," in *Industrial Electronics Society, IECON 2014 - 40th Annual Conference of the IEEE*, Vol., no., pp.5202-5207, Oct. 29 2014-Nov. 1 2014distributed.
90. Elsayed, A. T., & Mohammed, O. (2014, July). Distributed Flywheel Energy Storage Systems for mitigating the effects of pulsed loads. In *PES General Meeting| Conference & Exposition, 2014 IEEE* (pp. 1-5). IEEE
91. Tan Ma, Brandy Serrano, and Osama Mohammed, "Educational Approach to the Methodology of Implementing Wireless Control of Power Flow in Hybrid Power Systems", 2014 American Society for Engineering Education, Indianapolis, IN, June 2014.
92. T. Youssef, Ahmed Elsayed, A. Mohamed, and O. A. Mohammed, " Intelligent Multi-Objective Control for Improved Integration of Microgrids to Power Systems Involving Highly Nonlinear Local Loads", 5th Conference (ISGT North America), Washington, D.C., USA, 19-22 Feb 2014.
93. Alberto Berzoy, Mohammedreza Barzegaran, Osama Mohammed "3DFE- GA Procedure for the Optimum Placement of Magnetic Components on PCB Circuit Designs for Reduced EMI". The sixteenth Biennial IEEE Conference on Electromagnetic Field Computation. Annecy, France CEFC 2014.
94. Alberto Berzoy , Ahmed Elsayed, Tarek Youssef and Osama A. Mohammed "Improved Design of Controlled Rectifier for Reduced Ripple Resulting from Integration of DC loads to AC Systems". IEEE Power Energy Society General Meeting. PES 2014.

95. Ahmed A. S. Mohamed, Alberto Berzoy and Osama Mohammed "Optimized-Fuzzy MPPT Controller Using GA for Stand-alone Photovoltaic Water Pumping System" IECON 2014.
96. Tan Ma, O. A. Mohammed, "Laboratory Scaled Plug-in Electric Vehicles Car Park Infrastructure Emulator Design", iCEER 2014, Ontario, Canada.
97. Mustafa Farhadi and Osama Mohammed, "Performance Enhancement of Actively Controlled Hybrid DC Microgrid and Pulsed Power Load" 49th IEEE IAS Annual Meeting, Vancouver, BC Canada 5-9 October 2014.
98. Mustafa Farhadi, Ali Mazloomzadeh and Osama Mohammed, "Comparative Analysis of Energy Control Techniques for DC Microgrid and Pulsed Power Load Applications" 40th Annual Conference of the IEEE Industrial Electronics Society, IECON'2014, Dallas, TX - USA October 28 - November 1, 2014.
99. C. Lashway, A. Elsayed, O.A. Mohammed, "Design and Control of a Grid-Tied P-V System for Medium-Sized Household in South Florida," presented for the 12th Latin American and Caribbean Consortium of Engineering Institutions (LACCEI), Guayaquil, Ecuador, 22-24 Jul 2014.
100. C. Lashway, O.A. Mohammed, "Quantifying Battery State-of-Health in Microgrid Applications," presented for the Student Poster session at the Power & Energy Society General Meeting 2014, Washington, DC, 27-31 Jul. 2014.
101. T. Ma, C. Lashway, Y. Song, O.A. Mohammed, "Optimal Renewable Energy Farm and Energy Storage Sizing Method for Future Hybrid Power System," presented for the 17th International Conference on Electrical Machines and Systems, Hangzhou, China, 22-25 Oct 2014.
102. Farhadi, M.; Mohammed, O., "Experimental study on the effects of the pulse load characteristics on the performance of the slack bus generator," in *Electrical Machines and Systems (ICEMS), 2014 17th International Conference on*, vol., no., pp.2802-2807, 22-25 Oct. 2014.
103. Alberto Berzoy, Ahmed Elsayed, Tarek Youssef, and O. A. Mohammed, " Improved Design of Controlled Rectifier for Reduced Ripple Resulting from Integration of DC loads to AC Systems," IEEE Power and Energy Society General Meeting, Washington D.C., USA, 27-31 Jul 2014.
104. Alberto Berzoy, Mohammedreza Barzegaran, Osama Mohammed "3DFE- GA Procedure for the Optimum Placement of Magnetic Components on PCB Circuit Designs for Reduced EMI," The sixteenth Biennial IEEE Conference on Electromagnetic Field Computation. Annecy, France CEFC 2014.
105. Alberto Berzoy, Ahmed Elsayed, Tarek Youssef and Osama A. Mohammed "Improved Design of Controlled Rectifier for Reduced Ripple Resulting from Integration of DC loads to AC Systems". IEEE Power Energy Society General Meeting. PES 2014.
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107. Tan Ma, O. A. Mohammed, "Laboratory Scaled Plug-in Electric Vehicles Car Park Infrastructure Emulator Design", iCEER 2014, Ontario, Canada.
108. Mustafa Farhadi and Osama Mohammed, "Performance Enhancement of Actively Controlled Hybrid DC Microgrid and Pulsed Power Load" 49th IEEE IAS Annual Meeting, Vancouver, BC Canada 5-9 October 2014.
109. Mustafa Farhadi, Ali Mazloomzadeh and Osama Mohammed, "Comparative Analysis of Energy Control Techniques for DC Microgrid and Pulsed Power Load Applications" 40th Annual Conference of the IEEE Industrial Electronics Society, IECON'2014, Dallas, TX - USA October 28 - November 1, 2014.
110. Mehmet H. Cintuglu, Armando Altamirano and Osama Mohammed, "Modeling of PV Based Distributed Generation Systems with Diverse Load Patterns", 12th Latin American

- and Caribbean Conference for Engineering and Technology, Guayaquil, Ecuador, July, 2014.
111. Tan Ma, Brandy Serrano, and Osama Mohammed, "Fuzzy Logic Based Power and Thermal Management System Design for Multi-Cell Lithium-ion Battery Bank Protection and Operation", presented at the 2014 IEEE Power System Conference, Clemson, SC, 11-14 March 2014.
 112. Tan Ma, Brandy Serrano and Osama Mohammed, "Distributed Control of Hybrid AC-DC Microgrid with Solar Energy, Energy Storage and Critical Load", presented at 2014 IEEE Power System Conference, Clemson, SC, 11-14 March 2014
 113. M.R Barzegaran, O.A. Mohammed, "Investigation of Equivalent Source Model for the Study of Radiated Electromagnetic Fields Propagation from a DC Machine Drive", at the 9th International Conference on Computation in Electromagnetics (CEM 2014), London, United Kingdom, April 2014.
 114. C. Lashway and O.A. Mohammed, "Utility PV Array Planning Optimization and Investment Return for Solar Farm in Southwest Arizona," 2014 IEEE Photovoltaic Specialists Conference, Denver, CO, 8-13 June 2014.
 115. Alberto Berzoy, Ahmed Elsayed, Tarek Youssef and Osama A. Mohammed "Improved Design of Controlled Rectifier for Reduced Ripple Resulting from Integration of DC loads to AC Systems". IEEE Power Energy Society General Meeting, Washington DC, July 27-31, 2014.
 116. M.R. Barzegaran, O.A. Mohammed, "Combined Edge Modelling Technique for Electromagnetic Signature Study of the Large Direct Current Machines," presented at the Annual Review of Progress in Applied Computational Electromagnetics, Jacksonville, FL USA March 24-28, 2014.
 117. Mazloomzadeh, A.; Mohammed, O.; Zonouz, S., " TSB: Trusted Sensing Base for the Power Grid", IEEE SmartGridComm Symposium, Vancouver, Canada, 21-24 Oct 2013.
 118. Mehmet H. Cintuglu and Osama Mohammed, "Simulation of Digitalized Power Systems using PMU and Intelligent Control", Presented at 48th IEEE IAS Annual Meeting and published in the conference proceeding, Orlando, USA, October, 2013.
 119. Mustafa Farhadi and Osama Mohammed, "Adaptive Energy Management of Hybrid DC Microgrids Featuring Ultracapacitors and Voltage Protection Scheme with Hardware Implementation", Presented at the International Smart Grid Conference & Exhibition, ISGC&E, Jeju Islan, Korea, July 2013.
 120. Mustafa Farhadi and Osama Mohammed, "System Operation and Harmonic Analysis for Isolated and Non-Isolated Hybrid DC Microgrid", Presented at the 48th IEEE IAS Annual Meeting, Orlando, Florida USA, October, 2013.
 121. Tan Ma, Osama Mohammed, "Real-Time Plug-In Electric Vehicles Charging Control for V2G Frequency Regulation", presented at the IEEE, IECON 2013, Vienna, Austria, and for publication in the conference proceedings.
 122. Cintuglu, M.H.; Mohammed, O.A., "Islanding detection in microgrids," Power and Energy Society General Meeting (PES), 2013 IEEE, vol., no., pp.1, 5, 21-25 July 2013
 123. M.R Barzegaran, A. Mazloomzadeh, O.A. Mohammed, "Identification of Short-circuit Location in Induction Motors using Radiated Electromagnetic Field Signatures", Presented at ICEMS 2013, Busan, Korea, October 2013, and for publication in the conference proceedings
 124. Tan Ma; Mohammed, O., "Plug-in vehicles car park photovoltaic farm construction for cost and emission reductions", Energy Conversion Congress and Exposition (ECCE), 2013 IEEE, 15-19 Sept. 2013, Denver, CO, pp 5179-5184
 125. Youssef, Tarek A.; Mohammed, O., "Adaptive SRF-PLL with reconfigurable controller for Microgrid in grid-connected and stand-alone modes", Power and Energy Society General

- Meeting (PES), 2013 IEEE, 21-25 July 2013, Vancouver, B.C. Canada, pp 1-5, 21-25 July 2013
126. Ahmed Elsayed, A. Mohamed and O. A. Mohammed, "DC Microgrids and Distribution Systems: An Overview", Proceedings of 2013 IEEE Power and Energy Society General Meeting, Vancouver, B.C., Canada, 21-25 Jul 2013.v
 127. Ahmed Elsayed and O. A. Mohammed, "Wavelet-Adaptive ANN Forecaster for Renewable Energy Sources for Continuous Supply in Microgrid Applications", Proceedings of 2013 IEEE Power and Energy Society General Meeting, Vancouver, B.C., Canada, 21-25 Jul 2013.
 128. Silva, Frank D. ; Mohammed, Osama "Demand side load control with smart meters, Proceedings of 2013 IEEE Power and Energy Society General Meeting, Vancouver, B.C., Canada, 21-25 Jul 2013.
 129. Barzegaran, M.R.; Nejadpak, A.; Mohammed, O.A., "Condition monitoring of PM synchronous motor using high-frequency signal injection in low speed sensorless control algorithm", Electric Machines & Drives Conference (IEMDC), 2013 IEEE International, 12-15 May 2013, pp 716-721
 130. M.R Barzegaran, O.A. Mohammed, "Investigation of the Magnetic Signatures of Unbalanced Currents of Electric Motor Operation Using Finite Element Method and Neural Networks" presented at 29th Annual Review of Progress in Applied Computational Electromagnetics, Monterey, CA, USA Mar. 2013.
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