

International and national Refereed Conference Papers

Submitted :

1. Nour Elsayad, Ahmed Ibrahim and Osama Mohammed "An Integrated Medium Voltage Testbed using Solid State Transformers" in IAS General Meeting, Submitted on 30 March 2016
2. 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 submitted on 01 April 2016
3. A. A. S. Mohamed, Alberto Berzoy, and Osama Mohammed, "Steady-State Performance Assessment of Different Compensation Topologies in Two-way IWPT System for EV Ancillary Services", IEEE IAS 2016 Annual Meeting, Oct. 2, 2016.
4. A. A. S. Mohamed, Alberto Berzoy, and Osama Mohammed, "Physics-based Co-simulation Platform for EMC Analysis of Two-way Inductive WPT System in EV Applications", IEEE VPPC 2016, Oct. 17, 2016.
5. Alberto Berzoy, A. A. S. Mohamed, and Osama Mohammed, "Inter-Turn Short-Circuit Fault Model for Magnetically Coupled Circuits: A General Study", IEEE IAS 2016 Annual Meeting, Oct. 2, 2016
6. A. 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.
7. Ahmed Sheikh, A. A. S. Mohamed and Osama A. Mohammed "Frequency Oscillations Damping using Genetic Algorithm Based Fuzzy SVC Controller in Two Inter-Connected Areas" IECON 14 April 2016
8. 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 2016
9. 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
10. Christopher R.Lashway; Ahmed Elsayed; Tarek Youseff and Osama A. Mohammed,"Ripple Voltage Anlaysis for Flywheel-Battery Based Energy Storage System",31st Annual IEEE Applied Power Electronics Conference (APEC) March 2016.
11. Mehmet H. Cintuglu and Osama A. Mohammed,"Cloud Communication for Remre Access TestBeds",Power and Energy Society general Meeting(PE) November 2015.
12. A. A. S. Mohamed, Alberto Berzoy, and Osama Mohammed, "Vehicle Side Predictive Power-Flow Controller of Bidirectional WPT system in EV Ancillary Services", IEEE EEEIC 2016 conference, June 7, 2016.
13. Alberto Berzoy, A. A. S. Mohamed and Osama Mohammed, "State-Space Representations of Stator Winding Inter-turn Fault in Induction Machines using Complex-Vector Notation", IEEE ECCE2016, September 18, 2016.
14. Alberto Berzoy, A. A. S. Mohamed and Osama Mohammed, "Stator Winding Inter-turn Fault in Induction Machines: Complex-Vector Transient and Steady-State Modelling", IEEE ICEMS2016, November 13, 2016.

Accepted :

1. A. 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
2. A. 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.

3. Abdullah Aydeger, Kemal Akkaya, Mehmet H. Cintuglu, Selcuk Uluagac, Osama A. Mohammed "Software Defined Networking for Resilient Communications in Smart Grid Active Distribution Networks" IEEE ICC 2016 SAC Communications for the Smart Grid, January 2016
4. A. 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.
5. 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.
6. A. 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.
7. 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
8. Ahmed Elsayed; Tarek Youseff 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.
9. Mehmet H.Cintuglu; and Osama Mohammed "Multiagent-based decentralized operation of microgrids considering data interoperability" International Conference on Smart Grid Communications, November, 2015

Published :

1. Tarek Youssef, Mohamad El Hariri, Nicole Bugay, Osama Mohammed "IEC 61850: Technology Standards and Cyber-Security Threats" IEEEIC 2016, April 1, 2016
2. 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
3. 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
4. Mustafa Farhadi and Osama Mohammed. "Energy Storage System for High Power Applications" PP 1-7, IEEE IAS Meeting 2015.
5. Mustafa Farhadi and Osama Mohammed, "Hybrid Energy Storage Systems for Transportation Electrification" ACEMP Turkey , 2-4 September 2015.
6. 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
7. 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
8. Abla Hariri, Tarek Youssef, Ahmed Elsayed, Osama Mohammed, "A Computational Approach for a Wireless Power Transfer Link Design Optimization Considering Electromagnetic Compatibility" in COMPUMAG July 2015
9. Mehmet H.Cintuglu; Tan Ma and Osama Mohammed "Aggregated Active Distribution Networks for Secondary Control Of Islanded Power Systems" 2015 IEEE PES Meeting, 26-30 July 2015 Page 1-5, DOI: 10.1109/PESGM.2015.7285828
10. 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), 5-7 October, 2015, Page 485-490 DOI: 10.1109/ISGT-LA.2015.7381203

11. Tan Ma ;Mehmet H.Cintuglu; and Osama Mohammed "Control of Hybrid AC/DC Microgrid Involving Storage, Renewable energy and Pulsed loads" IEEE Industry Applications Society Annual Meeting, Addison,TX, 18-22 October, 2015 Page 1-8 DOI: 10.1109/IAS.2015.7356857
12. 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
13. 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,Rome, 10-13 June 2015
14. 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.
15. 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.
16. A. A. S. Mohamed, A. Berzoy, and O. Mohammed, "Power Flow Modeling of Wireless Power Transfer for EVs Charging and Discharging in V2G Applications," in 2015 IEEE Vehicle Power and Propulsion Conference (VPPC), Oct 2015, pp. 1–6.
17. Hariri, A.O.; Berzoy, A.; Mohamed, A.A.S.; Mohammed, O.A., "Performance evaluation of a wireless power transfer system using coupled 3D finite element-circuit model," in *Wireless Power Transfer Conference (WPTC), 2015 IEEE* , vol., no., pp.1-4, 13-15 May 2015
18. 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
19. Ahmed. F. Ebrahim, S.M.W. Ahmed, S. E. Elmasry, Osama A. Mohammed, "Implementation of a PV Emulator Using Programmable DC Power Supply" IEEE Southeast Conference April 2015
20. 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
21. A. Berzoy, A. A. S. Mohamed, and O. A. Mohammed, "Dynamic space-vector model of induction machines with stator inter-turn short-circuit fault," in IECON 2015 - 41st Annual Conference of the IEEE Industrial Electronics Society, Yokohama, Nov 2015, pp. 003620–003625
22. 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.
23. 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 Alexandria, VA June 2015
24. 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.
25. A. Berzoy, A. A. S. Mohamed, and O Mohammed, "Optimum Positioning of Inductive Components on PCB Designs for EMI Reduction using a Dynamic Elements and Genetic Algorithms" ACES 2015, Williamsburg, VA, March 2015
26. C. Lashway, O.A. Mohammed, "Three Dimensional Finite Element Analysis for the Study of Voltage Drop Behavior in Zinc Air Batteries under Load Conditions," presented at 31st International Review of Progress in Applied Computational Electromagnetics Society (ACES) 25 March 2015
27. 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
28. 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

29. Cintuglu, M.H.; Elsayed, A.T.; Mohammed, O.A., "Microgrid automation assisted by synchrophasors," in *Innovative Smart Grid Technologies Conference (ISGT), 2015 IEEE Power & Energy Society*, vol., no., pp.1-5, 18-20 Feb. 2015
30. Ahmed A. S. Mohamed, Alberto Berzoy and Osama Mohammed "Reduced Radiated EMI by Optimum Positioning of Inductors on PCB using 3DFEA - GA" Applied Computational Electromagnetics Society (ACES) March 2015
31. A. A. S. Mohamed, Alberto Berzoy and Osama A. Mohammed "Adaptive Transversal Digital Filter for Reference Current Detection in Shunt Active Power Filter", in IEEE Power Electronics Denver, CO Society 26-30 July 2015 2015.
32. Alberto Berzoy, A. A. S. Mohamed and Osama Mohammed "Optimization of FIS-MPPT and DC-DC Converter Design for Reduced EMI Levels for PV Applications Involving Electric Motor Loads", in International Electric Machines and Drives Conference (IEMDC) 2015.
33. 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
34. 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
35. Ahmed A. S. Mohamed, Alberto Berzoy and Osama Mohammed "Optimized-Fuzzy MPPT Controller Using GA for Stand-alone Photovoltaic Water Pumping System" IECON 2014
36. 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
37. Tan Ma, O. A. Mohammed, "Laboratory Scaled Plug-in Electric Vehicles Car Park Infrastructure Emulator Design", iCEER 2014, Ontario, Canada.
38. 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
39. Ahmed. F. Ebrahim, Tarek. Youssef, S.M.W. Ahmed, S. E. Elmasry, Osama A. Mohammed, " Fault Detection and Compensation For a PV System Grid Tie Inverter " NAPS 2014 – The 46th North American Power Symposium, Pullman, Washington state,USA, September 7-9, 2014.
40. A. Berzoy, A. A. S. Mohamed, and O. Mohammed, "Optimizing Power Converter PCB Magnetic Design for Lower EMI Levels," in ResearchGate, 2014.
41. Tarek Youssef, Ahmed Elsayed, Alberto Berzoy, and Osama A. Mohammed "Improved SRF Shunt APF control to Enhance the power Quality for Non-linear and Unbalanced Loads" IECON, 2014
42. 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
43. 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
44. 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.
45. 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

46. 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
47. Tan Ma, O. A. Mohammed, "Laboratory Scaled Plug-in Electric Vehicles Car Park Infrastructure Emulator Design", by iCEER 2014, Ontario, Canada
48. 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
49. 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, Washington, DC, 27-31 Jul. 2014
50. 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
51. 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
52. 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
53. Youssef, T.; ElSayed, A.; Mohamed, A.; Mohammed, O.A., "Intelligent multi-objective control for improved integration of microgrids to power systems involving highly nonlinear local loads," Innovative Smart Grid Technologies Conference (ISGT), 2014 IEEE PES , vol., no., pp.1-5, 19-22 Feb. 2014.
54. 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
55. M.R Barzegaran, O.A. Mohammed, "Investigation of Equivalent Source Model for the Study of Radiated Electromagnetic Fields Propagation from a DC Machine Drive", 9th International Conference on Computation in Electromagnetics (CEM 2014), London, United Kingdom, April 2014
56. 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
57. 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
58. 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
59. Mazloomzadeh, A.; Mohammed, O.; Zonouz, S., " TSB: Trusted Sensing Base for the Power Grid", IEEE SmartGridComm Symposium, Vancouver, Canada, 21-24 Oct 2013
60. 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
61. 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
62. 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

63. 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
64. 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
65. Barzegaran, M.R.; Mazloomzadeh, A.; Mohammed, O.A., "Identification of short-circuit location in induction motors using radiated electromagnetic field signatures," in Electrical Machines and Systems (ICEMS), 2013 International Conference on , vol., no., pp.484-489, 26-29 Oct. 2013
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69. Silva, F.D.; Mohammed, O., "Demand side load control with smart meters," in Power and Energy Society General Meeting (PES), 2013 IEEE , vol., no., pp.1-5, 21-25 July 2013
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72. Mazloomzadeh, A.; Farhadi M.; Mohammed, O., " Hardware Implementation of Hybrid AC-DC Power System Laboratory Involving Renewable Energy Sources", American Society for Engineering Education (ASEE) Annual Conference, Atlanta, USA, 18-26 June 2013
73. Tan Ma, Ahmed Elsayed and O. A. Mohammed, "Educational Experiments in Renewable Energy Analysis, Forecasting, and Management in Hybrid Power System", Proceedings of the 120th Society for Engineering Education (ASEE) Annual Conference & Exposition, Atlanta, USA, 23-26 June 2013
74. Mazloomzadeh, A.; Cintuglu, M.H.; Mohammed, O.A., "Islanding detection using synchronized measurement in smart microgrids," in Innovative Smart Grid Technologies Latin America (ISGT LA), 2013 IEEE PES Conference On , vol., no., pp.1-7, 15-17 April 2013
75. T. Youssef, Ahmed Elsayed, A. Mohamed, and O. A. Mohammed, "A Novel Smart Grid Controller for Bi-directional Grid Connected Inverters for Mitigation of Pulsed Loads on AC and DC Sides", Proceedings of the 1st International Smart Grid Conference & Exhibition (ISGC&E 2013), Jeju Island, Korea, 8-11 July 2013.
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82. Butler, D.M.; Mohammed, O.A., "Improving voltage profiles in the Dominican electricity network using Static VAR Compensators," in Southeastcon, 2013 Proceedings of IEEE , vol., no., pp.1-6, 4-7 April 2013
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