

International and national Refereed Conference Papers

Submitted :

1. Christopher R.Lashway; Ahmed Elsayed; Tarek Youseff and Osama A. Mohammed,"Ripple Voltage Anlaysia for Flywheel-Battery Based Energy Storage System",31st Annual IEEE Applied Power Electronics Conference (APEC) March 2016.

Accepted :

1. 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
2. Mustafa Farhadi and Osama Mohammed," A New Protection for Multi-Bus DC Power Systems using an Event Classification Approach" 2015 IEEE IAS Annual Meeting .
3. Mustafa Farhadi and Osama Mohammed. "Energy Storage System for High Power Applications" 2015 IEEE IAS Meeting 2015.
4. Mehmet H.Cintuglu; Tan Ma and Osama Mohammed "Aggregated Active Distribution Networks for Secondary Control Of Power Systems" 2015 IEEE PES Meeting, 2015.
5. 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
6. Mehmet H.Cintuglu; and Osama Mohammed "Multiagent-based decentralized operation of microgrids considering data interoperability" International Conference on Smart Grid Communications, November,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), September,2015
8. 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

Published :

1. 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
2. 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
3. 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.
4. 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.
5. 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
6. 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

7. 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
8. 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.
9. 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
10. 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.
11. 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
12. 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
13. 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
14. 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
15. 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
16. 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
17. Ahmed A. S. Mohamed, Alberto Berzoy and Osama Mohammed "Optimized-Fuzzy MPPT Controller Using GA for Stand-alone Photovoltaic Water Pumping System" IECON 2014
18. 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
19. Tan Ma, O. A. Mohammed, "Laboratory Scaled Plug-in Electric Vehicles Car Park Infrastructure Emulator Design", iCEER 2014, Ontario, Canada.
20. 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
21. 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
22. 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
23. 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
24. 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.
25. 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
 26. 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
 27. Tan Ma, O. A. Mohammed, "Laboratory Scaled Plug-in Electric Vehicles Car Park Infrastructure Emulator Design", by iCEER 2014, Ontario, Canada
 28. 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
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 31. 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
 32. 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
 33. 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.
 34. 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
 35. 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
 36. 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
 37. 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
 38. 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
 39. Mazloomzadeh, A.; Mohammed, O.; Zonouz, S., " TSB: Trusted Sensing Base for the Power Grid", IEEE SmartGridComm Symposium, Vancouver, Canada, 21-24 Oct 2013
 40. 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
 41. 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 Island, Korea, July 2013
42. 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
 43. 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
 44. 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
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 51. 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
 52. 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
 53. 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
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