

**Mohammad Ali Sherkat Masoum 191 Refereed Conference Publications before Joining UVU in July 2018**

1. N. Aghanoori, **M.A.S. Masoum**, S. Islam, "Investigation of Microgrid Instability Caused by Time Delay", 10th International Conference on Electrical and Electronics Engineering (ELECO 2017), Bursa, Turkey, pp. 1-6, Nov. 30-Dec. 2, 2017.
2. X. Su, X. Zhou, Y. Fu, P. Wolfs, **M.A.S. Masoum**, "A Comprehensive Three-Phase Load Flow Method for Integrated MV and LV Distribution Network," Australasian Universities Power Engineering Conference (AUPEC 2017), Melbourne, Australia, pp. 1-6, Nov. 19-22, 2017.
3. N. Jabalameli, **M.A.S. Masoum**, S. Deilami, "Optimal Online Charging of Plug in Electrical Vehicles Considering Voltage Unbalance Factor", IEEE PES General Meeting, Chicago, IL, USA, pp. 1-5, July 16-20, 2017.
4. M. Moghbel, **M.A.S. Masoum**, S. Deilami, "Optimal Placement and Sizing of Multiple StatCom in Distribution System to Improve Voltage Profile", Australasian Universities Power Engineering Conference (AUPEC 2016), Brisbane, Australia, pp. 1-6, Sep. 25-28, 2016.
5. M. Moghbel, **M.A.S. Masoum**, "D-STATCOM Based on Hysteresis Current Control to Improve Voltage Profile of Distribution Systems with PV Solar Power", Australasian Universities Power Engineering Conference (AUPEC 2016), Brisbane, Australia, pp. 1-6, Sep. 25-28, 2016.
6. M. Saleh, **M.A.S. Masoum**, L. Meek, M. Abshar, "Control Algorithm for Bidirectional Fly-back Active Cell Balancer with Interleaved Transformer Connections", IEEE PES General Meeting, Boston, USA, pp. 1-5, July 17-21, 2016.
7. S. Deilami, **M.A.S. Masoum**, M. Moghbel, "Derating of Active Power Filters Considering Network and Bus Voltage Total Harmonic Distortions", IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC 2016), Florence, Italy, pp. 1-5, June 6-8, 2016.
8. D. Panahi, S. Deilami, **M.A.S. Masoum**, "Evaluation of Parametric and Non-Parametric Methods for Power Curve Modelling of Wind Turbines", 9th International Conference on Electrical and Electronics Engineering (ELECO 2015), Bursa, Turkey, pp. 142-146, Nov.26-28, 2015.
9. S. Hajforoosh, **M.A.S. Masoum**, S. Islam, "Performance Analysis of Optimal Online and Delayed Charging of Plug-in Electric Vehicles", 9th International Conference on Electrical and Electronics Engineering (ELECO 2015), Bursa, Turkey, pp. 142-146, Nov.26-28, 2015.
10. N. Saffitri, F. Shahnian, **M.A.S. Masoum**, "Stochastic Analysis Results for Coordination of Single-Phase Rooftop PVs in Unbalanced Residential Feeders", The 7th IEEE PES Asia-Pacific Power and Energy Engineering Conference (IEEE PES APPEEC 2015), Brisbane, Australia, Nov. 15-18, 2015.
11. N. Aghanoori, **M.A.S. Masoum**, "Voltage Sag Compensation in Renewable Plant using Hydro-Pump Storage", The 7th IEEE PES Asia-Pacific Power and Energy Engineering Conference (IEEE PES APPEEC 2015), Brisbane, Australia, Nov. 15-18, 2015.
12. D. Panahi, S. Deilami, **M.A.S. Masoum**, S. Islam, "Forecasting Plug-In Electric Vehicles Load Profile using Artificial Neural Networks", Australasian Universities Power Engineering Conference (AUPEC 2015), Wollongong, NSW, Australia, pp. 1-6, Sep. 27-30, 2015.
13. A.Z. Nejad, S. Deilami, **M.A.S. Masoum**, N. Haghdadi, "Map-Based Linear Estimation of Drive Cycle for Hybrid Electric Vehicles", Australasian Universities Power Engineering Conference (AUPEC 2015), Wollongong, NSW, Australia, pp. 1-5, Sep. 27-30, 2015.
14. A. Fereidouni, M. Moghbel, **M.A.S. Masoum**, "Space-Vector Hysteresis Modulation for Neutral-Diode-Clamped Inverter in Active Power Filter Applications", Australasian Universities Power Engineering Conference (AUPEC 2015), Wollongong, NSW, Australia, pp. 1-6, Sep. 27-30, 2015.
15. A. Fereidouni, **M.A.S. Masoum**, "A New Space-Vector Hysteresis Current-Control Modulation for Active Power Filter Applications," Power Tech 2015 Conference, Eindhoven, The Netherlands, pp. 1-5, June 29-July 2, 2015.
16. A. Fereidouni, **M.A.S. Masoum**, "A New Technique for Improving the Performance of Active Power Filter in Power Systems with Isolated Neutral Point," Power Tech 2015 Conference, Eindhoven, The Netherlands, pp. 1-5, June 29-July 2, 2015.
17. Amir S. Masoum, S. Deilami, A. Abu-Siada, **M.A.S. Masoum**, "Fuzzy Logic Approach for Online Coordination of Charging Plug-In Electric Vehicles in Smart Grids," Power Tech 2015 Conference, Eindhoven, The Netherlands, pp. 1-6, June 29-July 2, 2015.
18. A.S. Masoum, S. Deilami, **M.A.S. Masoum**, A. Abu-Siada, S. Islam, "Overnight Coordinated Charging of Plug-In Electric Vehicles Based on Maximum Sensitivities Selections", 2014 International Conference on Applied Engineering Sciences (ICAES 2014), Los Angeles, USA, July 23-24, 2014.

19. S. Deilami, A.S. Masoum, **M.A.S. Masoum**, A. Abu-Siada, S. Islam, "Optimal Scheduling of LTC and Switched Shunt Capacitors in Smart Grid Considering Overnight Charging of Plug-In Electric Vehicles", 2014 International Conference on Applied Engineering Sciences (ICAES 2014), Los Angeles, USA, July 23-24, 2014.
20. K. Janfeshan, **M.A.S. Masoum**, S. Deilami, "V2G Application to Frequency Regulation in a Microgrid Using Decentralized Fuzzy Controller", The 6th International Conference on Modelling, Identification and Control (ICMIC 2014), **Melbourne**, Australia, PP. 1-5, Dec. 3-5, 2014.
21. O. Ameri Sianaki, **M.A.S. Masoum**, "Versatile Energy Scheduler Compatible with Autonomous Demand Response for Home Energy Management in Smart Grid: A System of Systems Approach", Australasian Universities Power Engineering Conference (AUPEC 2014), Perth, WA, Australia, pp. 1-6, Sep. 28-Oct. 1, 2014.
22. M.Y. Khamaira, A. Abu-Siada, S. Islam, **M.A.S. Masoum**, "A New Control Approach to Improve the Overall Performance of DFIG-based WECS" Australasian Universities Power Engineering Conference (AUPEC 2014), Perth, WA, Australia, pp. 1-6, Sep. 28-Oct. 1, 2014.
23. A. Ulinuha, **M.A.S. Masoum**, S. Islam, "Reactive Power/Voltage Control for Unbalanced Distribution System Using Genetic Algorithms", Australasian Universities Power Engineering Conference (AUPEC 2014), Perth, WA, Australia, pp. 1-7, Sep. 28-Oct. 1, 2014.
24. H.T. Moku, **M.A.S. Masoum**, M. Mohseni, "Review on Australian Grid Codes for Wind Power Integration in Comparison with International Standards", Australasian Universities Power Engineering Conference (AUPEC 2014), Perth, WA, Australia, pp. 1-6, Sep. 28-Oct. 1, 2014.
25. A. Fereidouni, **M.A.S. Masoum**, "Enhancing Performance of Active Power Filter with Fuzzy Logic Controller Using Adaptive Hysteresis Direct Current Control", Australasian Universities Power Engineering Conference (AUPEC 2014), Perth, WA, Australia, pp. 1-6, Sep. 28-Oct. 1, 2014.
26. N. Safitri, F. Shahnia, **M.A.S. Masoum**, "Different Techniques for Simultaneously Increasing the Penetration Level of Rooftop PVs in Residential LV Networks and Improving Voltage Profile", The 6th IEEE PES Asia-Pacific Power and Energy Engineering Conference (IEEE PES APPEEC 2014), Kowloon, Hong Kong, Dec 7-10, 2014.
27. M. Moghbel, **M.A.S. Masoum**, A. Fereidouni, "Coordinated Charging of Plug-In Electric Vehicles in Unbalanced Three-phase Residential Networks with Smart Three-phase Charger", Australasian Universities Power Engineering Conference (AUPEC 2014), Perth, WA, Australia, pp. 1-6, Sep. 28-Oct. 1, 2014.
28. N. Safitri, F. Shahnia, **M.A.S. Masoum**, "Coordination of Single-Phase Rooftop PVs to Regulate Voltage Profiles of Unbalanced Residential Feeders", Australasian Universities Power Engineering Conference (AUPEC 2014), Perth, WA, Australia, pp. 1-6, Sep. 28-Oct. 1, 2014.
29. T. Moku, **M.A.S. Masoum**, M. Mohseni, "Fault Ride Through Capability of Fixed Speed Induction Generators Connecting to Full Converter Wind Generation System within Weak Network", IEEE 5th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), Galway, Ireland, pp. 1-6, June 24-27, 2014.
30. T. Moku, **M.A.S. Masoum**, M. Mohseni, "Enhanced Reactive Power Allocation of Full Converter Wind Generation System", IEEE 5th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), Galway, Ireland, pp. 1-6, June 24-27, 2014.
31. Amir S. Masoum, S. Deilami, **M.A.S. Masoum**, A. Abu-Siada, S. Islam, "Online Coordination of Plug-In Electric Vehicle Charging in Smart Grid with Distributed Wind Power Generation Systems", IEEE PES General Meeting, Washington, USA, pp. 1-5, July 27-31, 2014.
32. N. Jabalameli, S. Deilami, **M.A.S. Masoum**, M. Abshar, "Rooftop PV with Battery Storage Solar Smoother", IEEE PES General Meeting, Washington, USA, pp. 1-5, July 27-31, 2014.
33. M.Y. Khamaira, A. Abu-Siada, S. Islam, **M.A.S. Masoum**, "Application of SMES Unit to Improve the Overall Performance of DFIG-based WECS", IEEE PES General Meeting, Washington, USA, pp. 1-5, July 27-31, 2014.
34. A.S. Masoum, N. Hashemnia, A. Abu-Siada, **M.A.S. Masoum**, S. Islam, "Performance Evaluation of On-Line Transformer Winding Short Circuit Fault Detection Based on Instantaneous Voltage and Current Measurements", IEEE PES General Meeting, Washington, USA, pp. 1-5, July 27-31, 2014.
35. N. Jabalameli, **M.A.S. Masoum**, F. Shahnia, T. H. Mehr, "Impact of Battery Rating on Performance of Rooftop PV Supporting Household Loads, Regulating PCC Voltage and Providing Constant Output Power to Grid," Australasian Universities Power Engineering Conference (AUPEC 2013), pp. 1-6, Tasmania, Australia, Sep. 29-Oct. 3, 2013.
36. N. Jabalameli, S. Deilami, **M.A.S. Masoum**, F. Shahnia, "Rooftop PV with Battery Storage for Constant Output Power Production Considering Load Characteristics", 8th International Conference on Electrical and Electronics Engineering (ELECO 2013), Bursa, Turkey, pp. 142-146, Nov.28-30, 2013.

37. T. H. Mehr, **M.A.S. Masoum**, N. Jabalameli, "Grid-Connected Lithium-Ion Battery Energy Storage System for Load Leveling and Peak Shaving," Australasian Universities Power Engineering Conference (AUPEC 2013), pp. 1-6, Tasmania, Australia, Sep. 29-Oct. 3, 2013.
38. S. Deilami, A.S. Masoum, N. Jabalameli, **M.A.S. Masoum**, "Optimal Scheduling of LTC and Switched Shunt Capacitors in Smart Grid with Electric Vehicles and Charging Station", 8th International Conference on Electrical and Electronics Engineering (ELECO 2013), Bursa, Turkey, pp. 162-166, Nov. 28-30, 2013.
39. R. Rossi, **M.A.S. Masoum**, "Application of Swing Equation and Equal Area Criteria to Determine Maximum Penetration of Wind Generation in an Islanded Network," Australasian Universities Power Engineering Conference (AUPEC 2013), Tasmania, Australia, pp. 1-5, Sep. 29-Oct. 3, 2013.
40. A.M.S. Yunus, Y.M. Alharbi, A. A. Siada, **M.A.S. Masoum**, "Investigation of Near Flicker Source Impact on the Dynamic Performance of FCWECS," Australasian Universities Power Engineering Conference (AUPEC 2013), Tasmania, Australia, pp. 1-5, Sep. 29-Oct. 3, 2013.
41. S. Deilami, **M.A.S. Masoum**, "Optimal Dispatch of LTC and Switched Shunt Capacitors in Smart Grid with Plug-In Electric Vehicles," IEEE Power Engineering Society General Meeting PES GM, Vancouver, British Columbia, Canada, pp. 1-7, 21-25 July, 2013.
42. N. Jayasekar, **M.A.S. Masoum**, P. Wolfs, "Optimal Power Management for LV Distribution Feeders with Finely Distributed PV and Co-located Storage," IEEE Power Engineering Society General Meeting PES GM, Vancouver, British Columbia, Canada, pp. 1-7, 21-25 July, 2013.
43. X. Su, **M.A.S. Masoum**, P. Wolfs, "Comprehensive Optimization of PV Inverter Reactive and Real Power Flows in Unbalanced Four Wire LV Distribution Network Operation," IEEE Power Engineering Society General Meeting PES GM, Vancouver, British Columbia, Canada, pp. 1-7, 21-25 July, 2013.
44. M. Moghbel, **M.A.S. Masoum**, F. Shahniah, "Coordinated Charging of PEVs in Unbalanced Residential Network Based on Worst Node Voltage Profile," IEEE Power Engineering Society General Meeting PES GM, Vancouver, British Columbia, Canada, pp. 1-7, 21-25 July, 2013.
45. O. Ameri Sianaki, **M.A.S. Masoum**, O. Hussain, "A Fuzzy TOPSIS Approach for Home Energy Management in Smart Grid with Considering Householders' Preferences", IEEE ISGT 2013 conference, IEEE PES Innovative Smart Grid Technologies, Washington, D.C., USA, pp. 1-7, Feb. 24-27, 2013.
46. N. Hashemnia, A. Abu-Siada, M.A.S. Masoum, S. Islam, "Toward the Establishment of Standard Codes for Power Transformer FRA Signature Interpretation", presented at MEPCON'12, Egypt, pp. 1-7, Dec. 2012.
47. A. M. Shiddiq Yunus, A. Abu-Siada, Y. Al Harby, M.A.S. Masoum, "Overview of Storage Energy Systems for Renewable Energy System Application", Proceeding of 3rd Makassar International Conference on Electrical Engineering and Informatics, , Indonesia, pp. 1-6, Dec. 2012.
48. A.M. Shiddiq Yunus, A. Abu-Siada, **M.A.S. Masoum**, "Impact of DC Link Faults on the Performance of Full Converter Based WECS," 15<sup>th</sup> International Middle East Power Systems Conference, (MEPCON'12), Egypt, pp. 1-5, Dec. 26-29, 2012.
49. S.Y. Derakhshandeh, **M.A.S. Masoum**, A.M.E.H. Golshan, M. Moghbel, "Short Time Planning and Allocation of Cost Saving in Industrial Microgrids," Australasian Universities Power Engineering Conference (AUPEC 2012), Bali, Indonesia, pp. 1-5, Sep. 26-29, 2012.
50. X. Sue, P. Wolfs, **M.A.S. Masoum**, "Optimal Operation of Multiple Unbalanced Distributed Generation Sources in Three-Phase Four-Wire LV Distribution Networks," Australasian Universities Power Engineering Conference (AUPEC 2012), Bali, Indonesia, pp. 1-6, Sep. 26-29, 2012.
51. P. Juanuwattanukul, **M.A.S. Masoum**, S. Hajforoosh, "Application of SVC and Single-Phase Shunt Capacitor to Improve Voltage Profiles and Reduce Losses of Unbalanced Multiphase Smart Grid with PEV Charging Stations," Australasian Universities Power Eng. Conference (AUPEC 2012), Bali, Indonesia, pp. 1-6, Sep. 26-29, 2012.
52. A.M. Shiddiq Yunus, **M.A.S. Masoum**, A. Abu-Siada, "Impact of Intermittent Misfire and Fire-through on the Performance of Full Converter Based WECS," Australasian Universities Power Engineering Conference (AUPEC 2012), Bali, Indonesia, pp. 1-5, Sep. 26-29, 2012.
53. N. Hashemnia, A. Abu-Siada, S. Islam, **M.A.S. Masoum**, "Impact of Transformer Model Parameters Variation on FRA Signature," Australasian Universities Power Engineering Conference (AUPEC 2012), Bali, Indonesia, pp. 1-5, Sep. 26-29, 2012.
54. M. Moghbel, H.T. Mokui, **M.A.S. Masoum**, M. Mohseni, "Reactive Power Control of DFIG Wind Power System Connected to IEEE 14 Bus Distribution Network," Australasian Universities Power Engineering Conference (AUPEC 2012), Bali, Indonesia, pp. 1-5, Sep. 26-29, 2012.
55. M. Moghbel, **M.A.S. Masoum**, F. Shahniah, P. Moses, "Distribution Transformer Loading in Unbalanced Three-phase Residential Networks with Random Charging of Plug-In Electric Vehicles," Australasian Universities Power Engineering Conference (AUPEC 2012), Bali, Indonesia, pp. 1-5, Sep. 26-29, 2012.

56. H. Tin, A. Abu-Siada, **M.A.S. Masoum**, "Active Filter and their Effects on Mitigation of Harmonics in Power System," Australasian Universities Power Engineering Conference (AUPEC 2012), Bali, Indonesia, pp. 1-5, Sep. 26-29, 2012.
57. H. Tin, A. Abu-Siada **M.A.S. Masoum**, "Power System Harmonic Mitigation using Hybrid Filters," Australasian Universities Power Engineering Conference (AUPEC 2012), Bali, Indonesia, pp. 1-5, Sep. 26-29, 2012.
58. S. Hmood, A. Abu-Siada, **M.A.S. Masoum**, S. Islam, "Standardization of DGA Interpretation Techniques using Fuzzy Logic Approach", Condition Monitoring and Diagnosis conference, Bali, Indonesia, pp. 1-7, September 2012.
59. N. Hashemnia, A. Abu-Siada, M.A.S. Masoum, S. Islam, "Characterization of Transformer FRA Signature under Various Winding Faults", Condition Monitoring and Diagnosis conference, Bali, Indonesia, pp. 1-5, September 2012.
60. A.M. Shiddiq Yunus, A. Abu-Siada, **M.A.S. Masoum**, "Impact of DC-Link Fault on the Dynamic Performance of DFIG," IEEE Power Engineering Society General Meeting PES GM, San Diego, CA, USA, July 22-26, pp. 1-6, 2012.
61. P. Moses, **M.A.S. Masoum**, M. Moghbel, "Effects of Iron-Core Topology on Inrush Currents in Three-Phase Multi-Leg Power Transformers," IEEE Power Engineering Society General Meeting PES GM, San Diego, CA, USA, July 22-26, pp. 1-6, 2012.
62. H.T. Mokui, M.A.S. Masoum, M. Mohseni, M. Moghbel, "Power System Transient Stability Enhancement using Direct Drive Wind Generators," IEEE Power Engineering Society General Meeting PES GM, San Diego, CA, USA, July 22-26, pp. 1-6, 2012.
63. P. Juanuwattanukul, **M.A.S. Masoum**, "Voltage Analysis for Placement of DG in Multiphase Distribution Networks," IEEE Power Engineering Society General Meeting PES GM, San Diego, CA, USA, July 22-26, pp. 1-5, 2012.
64. **M.A.S. Masoum**, P.S. Moses, S. Hajforoosh, "Distribution Transformer Stress in Smart Grid with Coordinated Charging of Plug-In Electric Vehicles", IEEE ISGT 2012 conference, IEEE PES Innovative Smart Grid Technologies, Gaithersburg, Maryland, USA, pp. 1-7, Jan. 16-20, 2012.
65. A.S. Masoum, P.S. Moses, **M.A.S. Masoum**, "Impact of Rooftop PV Generation on Distribution Transformer and Voltage Profile of Residential and Commercial Networks", IEEE ISGT 2012 conference, IEEE PES Innovative Smart Grid Technologies, Gaithersburg, Maryland, USA, pp. 1-7, Jan. 16-20, 2012.
66. P.S. Moses, **M.A.S. Masoum**, S. Hajforoosh, "Overloading of Distribution Transformers in Smart Grid Due to Uncoordinated Charging of Plug-In Electric Vehicles", IEEE ISGT 2012 conference, IEEE PES Innovative Smart Grid Technologies, Gaithersburg, Maryland, USA, pp. 1-7, Jan. 16-20, 2012.
67. H.T. Mokui, M. Mohseni, **M.A.S. Masoum**, "Implementation of Space Vector Based Hysteresis Current Control for Full Converter Wind Generation System", IEEE ISGT-Asia 2011conference, IEEE PES Innovative Smart Grid Technologies, Perth, WA, Australia, pp. 1-7, Nov. 13-16, 2011.
68. P. Juanuwattanukul, **M.A.S. Masoum**, "Identification of the Weakest Buses in Unbalanced Multiphase Smart Grids with Plug-In Electric Vehicle Charging Stations", IEEE ISGT-Asia 2011conference, IEEE PES Innovative Smart Grid Technologies, Perth, WA, Australia, pp. 1-6, Nov. 13-16, 2011.
69. A.M. Shiddiq Yunus, A. Abu-Siada, **M.A.S. Masoum**, "Application of SMES Unit to Improve the High-Voltage-Ride-Through Capability of DFIG-Grid Connected During Voltage Swell", IEEE ISGT-Asia 2011conference, IEEE PES Innovative Smart Grid Technologies, Perth, WA, Australia, pp. 1-6, Nov. 13-16, 2011.
70. S.M.H. Nabavi, S. Hajforoosh, **M.A.S. Masoum**, "Placement and Sizing of Distributed Generation Units for Congestion Management and Improvement of Voltage Profile using Particle Swarm Optimization", IEEE ISGT-Asia 2011conference, IEEE PES Innovative Smart Grid Technologies, Perth, WA, pp. 1-5, Nov. 13-16, 2011.
71. A.M. Shiddiq Yunus, A. Abu-Siada, **M.A.S. Masoum**, "Application of STATCOM to Improve the Low-Voltage-Ride-Through Capability of Type-D Wind Turbine Generator", IEEE ISGT-Asia 2011conference, IEEE PES Innovative Smart Grid Technologies, Perth, WA, Australia, pp. 1-6, Nov. 13-16, 2011.
72. A.M. Shiddiq Yunus, A. Abu-Siada, **M.A.S. Masoum**, "Improvement of LVRT Capability of Variable Speed Wind Turbine Generators using SMES Unit", IEEE ISGT-Asia 2011conference, IEEE PES Innovative Smart Grid Technologies, Perth, WA, Australia, pp. 1-7, Nov. 13-16, 2011.
73. N. Aghanoori, M. Mohseni, **M.A.S. Masoum**, "Fuzzy Approach for Reactive Power Control of DFIG-Based Wind Turbines", IEEE ISGT-Asia 2011conference, IEEE PES Innovative Smart Grid Technologies, Perth, WA, Australia, pp. 1-5, Nov. 13-16, 2011.
74. A. Abu-Siada, H. Tin, Y. Qian, **M.A.S. Masoum**, "Improvement of the Performance of Smart Grid Over-Current Protection Relays", IEEE ISGT-Asia 2011conference, IEEE PES Innovative Smart Grid Technologies, Perth, WA, Australia, pp. 1-5, Nov. 13-16, 2011.
75. A.S. Masoum, P.S. Moses, **M.A.S. Masoum**, "Operation of Three-Phase Three-Leg Power Transformers Subject to Voltage Swells", The 11<sup>th</sup> Electrical Power Quality and Utilization Conference, IEEE EPQU 2011, Lisbon, Portugal pp. 1-5, Sep. 17-19, 2011.
76. P. Juanuwattanukul, **M.A.S. Masoum**, P.S. Moses, "Voltage Analysis for Placement of DG in Unbalanced Distribution Networks", The 11<sup>th</sup> Electrical Power Quality and Utilization Conference, IEEE EPQU 2011, Lisbon, Portugal pp. 1-4, Sep. 17-19, 2011.

77. M. Mesbah, **M.A.S. Masoum**, S. Islam, "Predictive Direct Power Control using Space Vector Modulation", 11<sup>th</sup> Electrical Power Quality & Utilization Conference, IEEE EPQU 2011, Lisbon, Portugal pp.1-5, Sep. 17-19, 2011.
78. A.M. Shiddiq Yunus, A. Abu-Siada, **M.A.S. Masoum**, "Effect of SMES unit on The Performance Of Type-4 Wind Turbine Generator During Voltage Sag", IET Renewable Power Generation Conference, Edinburgh, UK, pp. 1-4, September 2011.
79. H. Tin, A. Abu-Siada, **M.A.S. Masoum**, "Impact of Harmonics on the Performance of Over-Current Relays," Australasian Universities Power Engineering Conference (AUPEC 2011), Brisbane, pp. 1-4, Sep. 25-28, 2011.
80. R. Rossi, **M.A.S. Masoum**, "Protection Coordination Issues With DFIG Wind Generation on Weak Networks: Preliminary Issues," Australasian Universities Power Engineering Conference (AUPEC 2011), Brisbane, Australia, pp. 1-7, Sep. 25-28, 2011.
81. P.S. Moses, **M.A.S. Masoum**, A.S. Masoum, "Distortions in Three-Phase Transformer Magnetizing Currents with Nonsinusoidal Conditions Considering Magnetic Hysteresis and Leg-Flux Coupling Effects," Australasian Universities Power Engineering Conference (AUPEC 2011), Brisbane, Australia, pp. 1-5, Sep. 25-28, 2011.
82. H.T. Mokui, M. Mohseni, **M.A.S. Masoum**, "Investigating the Transient Responses of Fully Rated Converter-Based Wind Turbines," Australasian Universities Power Engineering Conference (AUPEC 2011), Brisbane, Australia, pp. 1-7, Sep. 25-28, 2011.
83. S. Hajforoosh, S.M.H. Nabavi, **M.A.S. Masoum**, "Application of TCSC to Improve Total Transmission Capacity in Deregulated Power Systems," Australasian Universities Power Engineering Conference (AUPEC 2011), Brisbane, Australia, pp. 1-6, Sep. 25-28, 2011.
84. P. Juanuwattanukul, **M.A.S. Masoum**, "Analysis and Comparison of Bus Ranking Indices for Balanced and Unbalanced Three-Phase Distribution Networks," Australasian Universities Power Engineering Conference (AUPEC 2011), Brisbane, Australia, pp. 1-5, Sep. 25-28, 2011.
85. M. Mesbah, **M.A.S. Masoum**, S. Islam, "Improved Predictive Direct Power Control," Australasian Universities Power Engineering Conference (AUPEC 2011), Brisbane, Australia, pp. 1-5, Sep. 25-28, 2011.
86. P. Moses, **M.A.S. Masoum**, "Modeling and Analysis of the Suppression of Ferroresonance in Nonlinear Three-Phase Three-Leg Transformers," IEEE Power Engineering Society General Meeting PES GM, Detroit, Michigan, USA, pp. 1-6, July 26-29, 2011.
87. P. Juanuwattanukul, **M.A.S. Masoum**, "Voltage Stability Enhancement for Unbalanced Multiphase Distribution Networks," IEEE Power Engineering Society General Meeting PES GM, Detroit, Michigan, USA, pp. 1-6, July 26-29, 2011.
88. M. Mohseni, **M.A.S. Masoum**, S. Islam, "Low Voltage Ride-Through of DFIG Wind Turbines Complying with Western-Power Grid Code in Australia," IEEE Power Engineering Society General Meeting PES GM, Detroit, Michigan, USA, pp. 1-8, July 26-29, 2011.
89. A.M. Shiddiq, A. Abu-Siada, **M.A.S. Masoum**, "Effects of SMES on Dynamic Behaviors of Type D-Wind Turbine Generator-Grid Connected during Short Circuit," IEEE Power Engineering Society General Meeting PES GM, Detroit, Michigan, USA, pp. 1-6, July 26-29, 2011.
90. P. Moses, **M.A.S. Masoum**, K.M. Smedley, "Distribution Transformer Losses and Performance in Smart Grids with Residential Plug-In Electric Vehicles", IEEE ISGT 2011 conference, the second IEEE PES Innovative Smart Grid Technologies, Anaheim California, USA, pp. 1-7, Jan. 17-19, 2011.
91. M. Mohseni, S. Islam, **M.A.S. Masoum**, "Emergency Control of DFIG-Based Wind Turbines to Meet New European Grid Code Requirements", IEEE ISGT 2011 conference, the second IEEE PES Innovative Smart Grid Technologies, Anaheim California, USA, pp. 1-6, Jan. 17-19, 2011.
92. M. Mesbah, **M.A.S. Masoum**, S. Islam, "A Novel Direct Active Power Control Method for DFIG Wind Turbine Applications", IEEE ISGT 2011 conference, the second IEEE PES Innovative Smart Grid Technologies, Anaheim California, USA, pp. 1-7, Jan. 17-19, 2011.
93. P. Moses, **M.A.S. Masoum**, K.M. Smedley, "Harmonic Losses and Stresses of Nonlinear Three-Phase Distribution Transformers Serving Plug-In Electric Vehicle Charging Stations", IEEE ISGT 2011 conference the second IEEE PES Innovative Smart Grid Technologies, Anaheim California, USA, pp. 1-6, Jan. 17-19, 2011.
94. M. Mohseni, **M.A.S. Masoum**, S. Islam, "Robust Sensorless Decoupled P-Q Control of Doubly Fed Induction Generators for Wind Power Applications," Australasian Universities Power Engineering Conference (AUPEC 2010), Christchurch, New Zealand, Dec. 5-8, 2010.
95. M. Mohseni, S. Islam, **M.A.S. Masoum**, "Low Voltage Ride-Through Requirements at the PCC versus Wind Generator Terminals," Australasian Universities Power Engineering Conference (AUPEC 2010), Christchurch, New Zealand, Dec. 5-8, 2010.
96. P.S. Moses, **M.A.S. Masoum**, "Sensitivity Analysis of Ferroresonance Simulations to Small Variations in Model Parameters and Initial Conditions", Australasian Universities Power Engineering Conference (AUPEC 2010), Christchurch, New Zealand, Dec. 5-8, 2010.

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