

UTAS Smart Energy 2009 Publication List

Book

1. ME Haque & MF Rahman, "Control of Permanent Magnet Synchronous Motor Drives: Analysis, Modeling and Control", VDM Verlag & Co, Germany, 2009. [ISBN: 978-3-639-19103-5].

Refereed Journal publications

1. A Gargoom, N Ertugal, and WL Soong, "Power quality indices measurement using the S-transform", International Journal of Power and Energy Conversion, pp. 31-48, vol. 1, no. 1, 2009.
2. JE Sargison, AF Barton, GJ Walker, and PA Brandner, "Design and calibration of a water tunnel for skin friction research", Australian Journal of Mechanical Engineering, pp. 1-14, vol. 7, no. 2, 2009.
3. JE Sargison and A Percy, "Hydraulics of broad-crested weirs with varying side slopes", Journal of Irrigation and drainage engineering, pp. 115- 118, Jan/Feb. 2009.
4. P Mandal, AK Srivastava, T Senjyu, and M Negnevitsky, "A New Recursive Neural Network Algorithm to Forecast Electricity Price in PJM Day-Ahead Market," Wiley InterScience, International Journal of Energy Research, Vol. x, No. x, pp. xx-xx, 2009.
5. P Mandal, AK Srivastava, and J-W Park, "An Effort to Optimize Similar Days Parameters for ANN Based Electricity Price Forecasting", IEEE Transactions on Industry Applications, Vol. 45, No. 5, pp. 1886-1896, Sept/Oct 2009.
6. P Mandal, AK Srivastava, M Negnevitsky, and J-W Park, "Sensitivity Analysis of Neural Network Parameters to Improve the Performance of Electricity Price Forecasting," Wiley InterScience, International Journal of Energy Research, Vol. 33, No. 1, pp. 38-51, January 2009.
7. ME Haque, KM Muttaqi & M Negnevitsky, "A Novel Control Strategy for a Variable Speed Wind Turbine with a Permanent Magnet Synchronous Generator", IEEE Transaction on Industry Applications, vol. 46, no. 1, pp. 331-339, Jan./Feb., 2010. [ISSN 0093-9994].
8. ME Haque & MF Rahman, "Incorporating control trajectories with the direct torque control scheme of interior permanent magnet synchronous motor drive", IET Journal of Electric Power Applications, vol. 3, no. 2, pp. 93-101, March 2009. [ISSN: 1751-8660(print) 1751-8679(online)]
9. ME Haque, KM Muttaqi & M Negnevitsky, "A Control Strategy for output maximisation of a PMSG-based variable speed wind turbine", Australian Journal of Electrical & Electronic Engg. (AJEEE), vol. 5, no. 3, pp.263-270 . Feb. 2009. [ISSN: 1448-837X].
10. KJ Perkins, JE Sargison and GM Hallegraeff, 'Diatom fouling problems in a Tasmanian Hydro Canal, including the description of *Gomphonema tarraleahae* sp. nov', Diatom Research, 24 (2) pp. 377-391. ISSN 0269-249X (2009)
11. JE Sargison and AF Barton, 'Investigating Changes to Irrigation Scheme', Water Engineering Australia, 3 (2) pp. 34-35. ISSN 1835-1123 (2009)

Edited Conference Proceedings

1. Proceedings of the 3rd International workshop on artificial intelligence in science and technology, M Negnevitsky, editor, Hobart, Tasmania, Australia, 23-24 Nov., 2009. ISBN 978-1-86295-550-9.

Refereed Conference publications

1. M Negnevitsky, P Mandal, and AK Srivastava, "Machine Learning Applications for Load, Price and Wind Power Prediction in Power Systems", IEEE Power and Energy Society (PES), The 15th International Conference on Intelligent System Application to Power Systems, ISAP2009, Curitiba, Brazil, November 8–12, 2009.
2. M Negnevitsky, P Mandal, and AK Srivastava, "An overview of Forecasting Problems and Techniques in Power Systems", IEEE Power and Energy Society (PES) General Meeting, GM2009, Calgary, Canada, 26–30 July, 2009.
3. M Negnevitsky, "Hybrid Neuro-Fuzzy Systems: Heterogenous and Homogenous Structures", Proceedings of the 2009 World Congress on Computer Science and Information Engineering, Los Angeles, CA USA, March 31- April 2, 2009, ISBN 978-0-7695-3507-4.
4. M Negnevitsky, P Mandal, and AK Srivastava, "Applications of Intelligent Algorithm in Forecasting of Load Demand, Electricity Price, and Wind Power Prediction," The 3rd International Workshop on Artificial Intelligence In Science and Technnology, AISAT2009, The University Of Tasmania, Hobart, Australia, 23 – 24 November 2009.
5. M Negnevitsky, ME Haque, A Gargoom, and AMO Haruni, and M Piekutowski, "Hybrid Remote Area Power Systems with Hydrogen Energy Storage for Isolated and Regional Communities", Proceedings of the Regional Electrical Engineering Forum, IDC Technologies, pp 1-13, Hobart, 1-2 July, 2009.
6. P Mandal, AK Srivastava, and M Negnevitsky, "Improving Performance of NN Based Electricity Price Forecasting Using Sensitivity Analysis," IEEE Power and Energy Society (PES), Power Systems Conference and Exposition, PSCE2009, Seattle, USA, March 15–18, 2009.
7. A Gargoom, ME Haque, and M Negnevitsky, "PI-like fuzzy based controller for the load-side converters in stand-alone wind energy systems", the IEEE international electric machines and drives conference, pp. 1474-1480, 3-6 May, 2009.
8. A Gargoom, AMO Haruni, ME Haque, and M Negnevitsky, " Fuzzy Logic Controller for a Three-level Converter in Stand-Alone Wind Energy Systems", The 3rd International workshop on artificial intelligence in science and technology, pp. 1-6, 23-24 Nov., 2009.
9. A Latheef and M Negnevitsky, "Estimation of power system voltage with limited measurements", Australasian Universities Power Engineering Conference, 27-30 Sept., 2009.
10. AMO Haruni, A Gargoom, ME Haque, and M Negnevitsky, "Voltage and frequency stabilization of wind-diesel hybrid remote area power systems", Australasian Universities Power engineering conference, 27-30 Sept., 2009.
11. AMO Haruni, A Gargoom, ME Haque, and M Negnevitsky, "An Artificial Intelligence Approach to develop the time-series prediction model of the arc furnace resistance", The 3rd International workshop on artificial intelligence in science and technology, pp. 1-6, 23-24 Nov., 2009.

12. DT Nguyen, M Negnevitsky, M De Groot, and C Wang, "Demand Response in the retail market: benefits and challenges", Australasian Universities Power engineering conference, 27-30 Sept., 2009.
13. S Sequeira, R Fay, JE Sargison, and F Soriano, "A preliminary analysis of subfloor ventilation data - bridging the gap between theory and experiment", 43rd Annual conference of the architectural science association, November 2009.
14. YC Choo, AP Agalgaonkar, KM Muttaqi, S Perera, and M Negnevitsky, " Dynamic Modelling of Hydroelectric Turbine – Generator Unit connected to a HVDC System for Small Signal Stability Analysis", Proceedings of the 19th Australasian Universities Power engineering conference, 27-30 Sept., 2009.
15. KN Hasan, ME Haque, M Negnevitsky, and KM Muttaqi, " An Improved maximum power point tracking technique of the photovoltaic module with current mode control", Australasian Universities Power engineering conference, 27-30 Sept., 2009.
16. C Pham, M Negnevitsky, S Jarvis, and T Ho, "Transmission Losses Prediction for Tasmanian Power System Using Intelligent Tools", The 3rd International Workshop on Artificial Intelligence In Science and Technnology, AISAT2009, The University Of Tasmania, Hobart, Australia, 23 – 24 November 2009.
17. AD Henderson, M Guijt, MC Breadmore, ALJ Carew and RM Guijt 'Honour thesis assessment: the role of guidelines in achieving inter-rater agreement', Proceedings of 20th Annual Conference for the Australasian Association for Engineering Education, 6-9 December 2009, The University of Adelaide, pp. 185-192. ISBN 1876346604 (2009)
18. JS Porter, AD Henderson and GJ Walker, 'Influence of inlet velocity ratio on the outlet flow uniformity of a fan-shaped film cooling hole', Proceedings of ASME Turbo Expo 2009: Power for Land, Sea and Air , June 8-12 2009, Orlando, Florida, USA, pp. 1-12. ISBN 978-0-7918-3849-5 (2009)
19. GA Thomas and AD Henderson and TL* Goldfinch, 'The Influence of University Entry Scores on Performance in Engineering Mechanics', Proceedings of 20th Annual Conference for the Australasian Association for Engineering Education, 6-9 December 2009, The University of Adelaide, Adelaide, pp. 980-985. ISBN 1876346604 (2009)
20. GA Thomas, MR Davis, DS Holloway, T* Roberts, S Matsubara, J Lavroff, WAI Amin, KR Chamberlin and TW Dove, 'Characterisation of slam events of a high-speed catamaran in irregular waves', 10th International Conference on Fast Sea Transportation, 5th -8th October, Athens, pp. 177-188. ISBN 978-960-254-686-4 (2009)
21. MR Davis, WAI Amin, J Lavroff, DS Holloway, GA Thomas, S Matsubara and T* Roberts, 'Global and Slam Load Model Testing to Support Developing HSMV Operations in Severe Sea Conditions', International Conference for Innovation in High Speed Marine Vessels, 28-29 January , Fremantle, Australia, pp. on CD. (2009)
22. MR Davis, GA Thomas, DS Holloway, J Lavroff, WAI Amin, S Matsubara and T* Roberts, 'Slamming and Whipping of Wave-Piercing Catamarans', 5th International Conference on Hydroelasticity in Marine Technology, 8-10 September, Southampton, UK, pp. on CD. (2009)
23. JM Andrewartha and N* Cribbin, 'When the going gets rough, the rough stops flowing', Concrete Solutions 09--adding value in changing climates, 17-19 sept, 2009, Sydney, Australia, pp. 1-8. (2009)
24. S Loo, G Nolan and SA Sequeira, 'Performative Ecologies in the Built Environment: Sustainability Research Across Disciplines ', 2009 ANZAScA, 25-27 November 2009 , Launceston, TAS , pp. 1-58. ISBN 978-1-86295-547-9 (2009)