

Refereed Journal Publications

1. Choo, Y.C., Muttaqi, K.M. and Negnevitsky, M., "Evaluation of Small Signal Stability of a Power System", *Australian Journal of Electrical and Electronics Engineering*, Vol. 4, No. 3, 2008, pp. 227 - 237.
2. Le, An D. T., Muttaqi, K.M., Negnevitsky, M. and Ledwich, G., "Applying Protection Principles for Controlling Distributed Generation", *Australian Journal of Electrical and Electronics Engineering*, Vol. 4, No. 3, 2008, pp. 249 - 258.
3. Negnevitsky, M., "Computational Intelligence Approach to Crisis Management in Power Systems", *International Journal of Automation and Control*, Vol. 2 Nos. 2/3, 2008, pp. 247-273.
4. Choo, Y. C., Muttaqi, K. M. and Negnevitsky, M., "Modelling of Hydraulic Governor-Turbine for Control Stabilisation", *Australian and New Zealand Industrial and Applied Mathematics Journal (ANZIAMJ)*, Vol. 49, 2008.
5. Gargoom, A.M.; Ertugrul, N.; and Soong, W.L, "Automatic Classification and Characterization of Power Quality Events", *IEEE Transactions on Power Delivery*, Vol. 23 Issue 4, October 2008, pp. 2417 – 2425. ISSN: 0885-8977.
6. Henderson, A. D., Sargison, J. E. , Walker, G. J. and Haynes J., "A Numerical Prediction of the Hydrodynamic Torque acting on a Safety Butterfly Valve in a Hydro-Electric Power Scheme, *WSEAS Transactions on Fluid Mechanics*, Volume 3, Issue 3, 2008 , pp. 218-223, ISSN: 1790-5087
7. Henderson AD, Walker GJ and Hughes JD, "Unsteady Transition Phenomena at a Compressor Blade Leading Edge", *ASME Journal of Turbomachinery*, Vol 130, April 2008, 10 pp. ISSN 0889-504X
8. Porter JS, Sargison JE, Walker GJ and Henderson AD, "A Comparative Investigation of Round- and Fan-Shaped Cooling Hole Near Flow Fields", *ASME Journal of Turbomachinery*, Vol 130, October 2008, 8 pp, ISSN 0889-504X.
9. Fritz, William P., Bogusz Bienkiewicz, O. Flamand, T C E (Eric) Ho, H. Kikitsu, Chris W. Letchford and Emil Simiu, (2008) International Comparison of Wind Tunnel Estimates of Wind Effects on Low-Rise Buildings: Test-Related Uncertainties, *ASCE J. Struct. Engng.*, December 2008, 1887 – 1890.
10. Mishra, A.R., D.J. James & C.W. Letchford, (2008), Physical Simulation of a Single-Celled Tornado-Like Vortex, Part A: Flow Field Characterization, *JWEIA* 96 1243-1257.
11. Mishra, A.R., D.J. James & C.W. Letchford, (2008), Physical Simulation of a Single-Celled Tornado-Like Vortex, Part B: Wind Loading on a Cubical Model, *JWEIA* 96 1258-1273.
12. Holmes, J.D., H.M.Hangan, J.L. Schroeder, C.W. Letchford & K.D. Orwig, (2008) A forensic study of the Lubbock-Reese downdraft of 2002, *Wind & Structures*, 11 (2) 137-152.
13. Muttaqi, KM and Haque, ME, 'Reducing the effect of Electromagnetic Interference Emitted by Fast Switching Power Electronic Devices', *International Journal of Innovations in Energy Systems & Power*, **3** (1), 2008, pp. 19-26. ISSN 1913-133X.
14. Barton, AF and Wallis, MR and Sargison, JE and Walker, GJ, "A Case Study of the Improvements Gained in Conduit Efficiency by Cleaning a Biofouled Pipeline", *Australian Journal of Water Resources*, 12 (3) pp. 223-232. ISSN 1324-1583 (2008).
15. Sargison, JE and Percy, A, "Hydraulic of Board Crested Weirs with Varing Side Slopes, *Journal of Irrigation and Drainage Engineering*", 135 (1) pp. 115-118. ISSN 0733-9437 (2008).
16. Barton, AF and Wallis, MR and Sargison, JE and Buia, AD and Walker, GJ, "Hydraulic Roughness of Biofouled Pipes, Biofilm Character, and Measured Improvements From Cleaning", *Journal of Hydraulic Engineering*, 134 (6), pp. 852-857. ISSN 0733-9429 (2008).

17. Ho, NT and Karri, V and Lim, D and Barrett, DT, "An investigation of engine performance parameters and artificial intelligent emission prediction of hydrogen powered car", *International Journal of Hydrogen Energy*, 33 pp. 3837-3846. ISSN 0360-3199 (2008).
18. Karri, V and Ho, NT and Madsen, O, "Artificial Neural Networks and neuro-fuzzy inference systems as virtual sensors for hydrogen safety prediction", *International Journal of Hydrogen Energy*, 33 pp. 2857-2867. ISSN 0360-3199 (2008).
19. Ho, NT and Karri, V and Madsen, O, "Prediction of hydrogen safety parameters using intelligent techniques", *International Journal of Energy Research*, 2008 (online) pp. 1-12. ISSN 0363-907X (2008).

Edited Volume of Conference Proceedings

1. *Proceedings of the API 2008 Residential School in Electric Power Engineering*, M.Negnevitsky, ed., The University of Tasmania, Hobart, Australia, February 4-22, 2008, ISBN 978-1-86295-438-0.
Proceedings of the API 2008 Residential School in Electric Power Engineering, M.Negnevitsky, ed., The University of Tasmania, Hobart, Australia, February 4-22, 2008, CD-ROM, ISBN 978-1-86295-439-7.

Refereed Conference Publications

1. Vega, R.E. & C.W. Letchford (2008), Directional probabilities of extreme winds, AMOS/AWES 15th National Conference, Geelong, 29 January-1 February, 2008.
2. Letchford, C.W. (2008) Severe Winds in Wind Engineering, Plenary Session, AMOS/AWES 15th National Conference, Geelong, 29 January-1 February, 2008.
3. Negnevitsky, M. and Kelareva, G., "Development of a Multi-layer Genetic Algorithm for Maintenance Scheduling in Power Systems" (Panel Paper), *Proceedings of the IEEE/PES Transmission and Distribution Conference & Exposition*, Chicago, Illinois, 21-24 April, 2008, CD-ROM, IEEE Catalog Number 06EX1305C, ISBN 1-4244-0178-X.
4. An, J.S.; Ertugrul, N.; Soong, W.L.; Zhu, J.; and Gargoom, A., "An indirect rotor position estimation technique for a fault-tolerant brushless PM motor drive", *IEEE Power Electronics Specialists Conference*, PESC June 15-19, 2008, pp. 1553 – 1558, ISBN: 978-1-4244-1667-7
5. Negnevitsky, M. and Johnson, P., "Very Short Term Wind Power Prediction: A Data Mining Approach" (Panel Paper), *Proceedings of the IEEE/PES General Meeting*, Pittsburg, Pennsylvania, 20-24 July 2008, CD-ROM, IEEE Catalog Number CFP08POW-CDR, ISBN 978-1-4244-1906-7.
6. Aktarujjaman, M., Haque, M.E., Muttaqi, K. M., Negnevitsky, M. and Ledwich, G., "Control Dynamics of a Doubly Fed Induction Generator Under Sub- And Super-Synchronous Modes of Operation", *Proceedings of the IEEE/PES General Meeting*, Pittsburg, Pennsylvania, 20-24 July 2008, CD-ROM, IEEE Catalog Number CFP08POW-CDR, ISBN 978-1-4244-1906-7.
7. Haque, M. E., Muttaqi, K. M. and Negnevitsky, M., "Control of a Stand Alone Variable Speed Wind Turbine with a Permanent Magnet Synchronous Generator", *Proceedings of the IEEE/PES General Meeting*, Pittsburg, Pennsylvania, 20-24 July 2008, CD-ROM, IEEE Catalog Number CFP08POW-CDR, ISBN 978-1-4244-1906-7.
8. Ledwich, G., Le, An D. T., Muttaqi, K. M. and Negnevitsky, M., "Distributed generation diversity level for optimal investment planning", *Proceedings of the Cigre Seccion 42*, Paper C6-103, Paris, France, 24-29 August 2008, CD-ROM, ISBN 978-2-85873-024-7.
9. Hasan, K. N., Haque, M. E., Negnevitsky, M. and Muttaqi, K. M., "Output quality evaluation of photovoltaic systems with different current control methods of switch-mode converters", *Proceedings of the 13th International Conference on Harmonics and Quality of Power (ICHQP)*, 28 September – 1 October 2008, Wollongong, Australia, Digital Object Identifier 10.1109/ICHQP.2008.4668861, pp. 1-6, 2008.
10. Haque, M. E., Muttaqi, K. M. and Negnevitsky, M., "A Novel Control Strategy for a Variable Speed Wind Turbine with a Permanent Magnet Synchronous Generator" *IEEE-IAS Industry Applications Society Annual Meeting (IAS 2008)*, Alberta, Canada, Digital Object Identifier 10.1109/08IAS.2008.374, October 5-9, 2008.

11. Mandal, M., Anurag K. Srivastava, A.K., Negnevitsky, M. and Park, J-W., "An Effort to Optimize Similar Days Parameters for ANN Based Electricity Price Forecasting" *IEEE-IAS Industry Applications Society Annual Meeting (IAS 2008)*, Alberta, Canada, Digital Object Identifier 10.1109/08IAS.2008.374, October 5-9, 2008.
12. Negnevitsky, M., "Hybrid Neuro-Fuzzy Systems or How to Combine German Mechanics with Italian Love" (Plenary Paper), *Proceedings of the 17th SOFT Symposium of the Japan Society for Fuzzy Theory and Intelligent Informatics*, University of Fukui, Japan, November 9-10, 2008, pp. 19-26.
13. Hasan, K. N., Haque, M. E., Negnevitsky, M. and Muttaqi, K. M., "Performance Analysis of VMC and CMCs of Switch-Mode Converters for Photovoltaic Applications", *Proceedings of the IEEE-IECON Industrial Electronics Society Annual Conference*, Orlando, Florida, USA, November 10-13, 2008.
14. Edwards D. and Negnevitsky, M., "Designing a Wind-Diesel Hybrid Remote Area Power Supply (RAPS) System", *Proceedings of the 2008 IEEE International Conference on Sustainable Energy Technologies*, Singapore, November 24-27, 2008, CD-ROM, IEEE Catalog Number: CFP0879D-CDR, ISBN: 978-1-4244-1888-6, pp. 370-375.
15. Haruni, A. M., Negnevitsky, M., Haque, M. E. and Muttaqi, K. M., "Implementation of Artificial Intelligence Technique to Model Arc Furnace Responses", *Proceedings of the Australasian Universities Power Engineering Conference*, Sydney, Australia, December 14-17, 2008, CD-ROM, ISBN 978-0-7334-2715-2.
16. Choo, Y. C., Agalgaonkar, A. P., Muttaqi, K. M., Perera, S. and Negnevitsky, M., "Subsynchronous Torsional Behaviour of a Hydraulic Turbine-Generator Unit Connected to a HVDC System", *Proceedings of the Australasian Universities Power Engineering Conference*, Sydney, Australia, December 14-17, 2008, CD-ROM, ISBN 978-0-7334-2715-2.
17. Hasan, K. N., Haque, M. E., Negnevitsky, M. and Muttaqi, K. M., "Control of an Efficient Bidirectional Converter as Energy Storage Interface of PV Systems", *Proceedings of the Australasian Universities Power Engineering Conference*, Sydney, Australia, December 14-17, 2008, CD-ROM, ISBN 978-0-7334-2715-2.
18. Latheef, A., Negnevitsky, M. and Muttaqi, K. M. and Perera, S., "Present Understanding of the Impact of Distributed Generation on Power Quality", *Proceedings of the Australasian Universities Power Engineering Conference*, Sydney, Australia, December 14-17, 2008, CD-ROM, ISBN 978-0-7334-2715-2.
19. Nguyen, D., Negnevitsky, M., Jiang, D. and Groof M. D., "A Model of Domestic Energy Management Enabling Low-Cost Technology", *Proceedings of the Australasian Universities Power Engineering Conference*, Sydney, Australia, December 14-17, 2008, CD-ROM, ISBN 978-0-7334-2715-2. (*)
20. Goldfinch T, Carew AL, Gardner A, Henderson AD, McCarthy TJ, Thomas, G, "Cross-Institutional Comparison of Mechanics Examinations: A Guide for the Curious", In Proceedings of the 19th Annual Conference Australasian Association for Engineering Education, 7-10th December, Yeppoon, Queensland, 2008, CD-ROM ISBN 1-921047 60 7.
21. Carew, A.L., D.J.H.Lewis & C.W. Letchford, (2008) Conversational Auditing of Stage 1 Competencies for Accreditation and Beyond, 19th AAEE Conference, Yeppoon, QLD, 7-10 December 2008.
22. Chen, D, & C.W. Letchford (2008) Parameterizing wind stress over simulated wind waves, American Association of Wind Engineers Workshop, Vail, CO USA, 21/22 August 2008.
23. Sargison, JE and Barton, AF, Application of the HEC RAS to HydraulicModelling of an irrigation Scheme to Determine Potential for CapacotyIcrease, Proceedings of 9th National Conference on Hydraulics in WaterEngineering, 23-26 September, 2008, Darwin, Australia, pp. 1-8. (2008)
24. Andrewartha, JM and Sargison, JE and Henderson, AD and Perkins, KJ andWalker, GJ, "The Effect of Freshwater Biofilms on Skin Friction Drag", Proceedings of 16th IAHR-APD Congress and 3rd Symposium of IAHR-ISHS, 20-23 Oct, 2008, Nanjing, China, pp. 1940-1945. (2008)
25. Andrewartha, JM and Sylvester, M and Sargison, JE and Clarke, W, TheState of Power: A Tasmanian Perspective, Proceedings of High-LevelInternational Forum on Water Resources Hydropower, 17-18 Oct, 2008, Beijing, China, pp. 208-215. (2008).

26. Ho, NT and Karri, V, 'Fuzzy Expert System to Estimate Ignition Timing for Tuning of Hydrogen Car', *Proceedings of 5th International Symposium on Neural Networks*, 24-28 September, 2008, Beijing, China, pp. 570-579. ISBN 978-3-540- 87733-2 (2008).
27. Jiang, D, 'A finite step scheme for general near-optimal control-the deterministic case', *Proceedings of 17th IFAC World Congress*, 6-11 July, 2008, Seoul, Korea, pp. 7949-7953. ISBN 978-1-1234-7890-2 (2008)
28. Jiang, D, 'Complex-Value Recurrent Neural Networks for Global Optimization of Beamforming in Multi-Symbol MIMO Communication Systems', *Proceedings of ICCSC08*, 26-28 May, 2008, Shanghai, China, pp. 1-5. ISBN 978-1-4244-1708-7 (2008)
29. Karri, V and Yap, WK and Titchen, J, 'Simulation and Configuration of Hydrogen Assisted Renewable Energy Power System', *Proceedings of World Academy of Science, Engineering and Technology*, July 2008, Paris, France, pp. 886-893. ISBN 1307-6884 (2008)
30. Yap, WK and Karri, V, 'Modelling and simulation of a hybrid scooter', *Proceedings of World Academy of Science, Engineering and Technology*, July 2008, Paris, France, pp. 880-885. ISBN 1307-6884 (2008)