

Selected Publications (since 2005)

- Barua, S., Ng, A.W.M and Perera, B. J. C. (2011) Comparative Evaluation of Drought Indices: A Case Study on the Yarra River Catchment in Australia, *ASCE Journal of Water Resources Planning and Management*, Vol. 137, No. 2, pp. 215-226.
- Barua, S., Perera, B.J.C., Ng, A.W.M. and Tran, D.H. (2010), Drought Forecasting Using an Aggregated Drought Index and Artificial Neural Networks. *Journal of Water and Climate Change*, Vol. 1, No. 3, pp. 193-206.
- Goonrey, C.M., Perera, B.J.C., Lechte, P, Maheepala, S. and Mitchell, V.G. (2009) A Technical Decision Making Framework: Stormwater as an Alternative Supply Source, *Urban Water Journal*, Vol. 6, Issue 6, pp. 417-429.
- Juwana, I, Perera, B. J. C. and Muttill, N. (2010) A Water Sustainability Index for West Java – Part 1: Developing the Conceptual Framework, *Water Science and Technology*, Vol. 62, No. 7, pp 1629–1640.
- Juwana, I, Perera, B. J. C. and Muttill, N. (2010) A Water Sustainability Index for West Java – Part 2: Refining the Conceptual Framework Using the Delphi Technique, *Water Science and Technology*, Vol. 62, No. 7, pp 1641–1652.
- Kodikara, P.N., Perera, B.J.C. and Kularathna, M.D.U.P. (2010) Stakeholder Preference Parameter Elicitation and Modelling in Multi-Criteria Decision making – A Case Study on an Urban water Supply System, *European Journal of Operations Research*, Vol. 206, pp. 209-220.
- Mashford, J., Marlow, D., Tran, D., May, R. (2011), Prediction of Sewer Condition Grade Using Support Vector Machines, *Journal of Computing in Civil Engineering*, ASCE. Vol. 25, No. 4, pp. 283-290.
- Muthukumaran, S., Baskaran, K., Patterson, N. (2011) Quantification of potable water savings by residential water conservation and reuse -A case study” *Resources, Conservation and Recycling*, Vol. 55, pp.945-952.
- Muthukumaran, S., Nguyen, D.A., Baskaran, K. (2011), Performance evaluation of different ultrafiltration membranes for the reclamation and reuse of secondary effluent, *Desalination*, Vol. 279, pp. 383-389.
- Muttill, N. and Chau, K. W. (2006). Neural Network and Genetic Programming for Modelling Coastal Algal Blooms, *International Journal of Environment and Pollution*, Vol. 28, No. 3 - 4, pp. 223 - 238.
- Muttill, N. and Chau, K. W. (2007). Machine Learning Paradigms for Selecting Ecologically Significant Input Variables, *Engineering Applications of Artificial Intelligence*, Vol. 20, No. 6, pp. 735 - 744.
- Muttill, N. and Jayawardena, A. W. (2008). Shuffled Complex Evolution Model Calibrating Algorithm: Enhancing its Robustness and Efficiency, *Hydrological Processes*, Vol. 22, No. 23, pp. 4628 - 4638.
- Muttill, N. and Lee, J. H. W. (2005). Genetic Programming for Analysis and Real-Time Prediction of Coastal Algal Blooms, *Ecological Modelling*, Vol. 189, No. 3 - 4, pp. 363 - 376.
- Ng, A.W.M., Perera, B.J.C. and Tran, D.H. (2006) Improvement of River Water Quality Through Seasonal Effluent Discharge Program (SEDP), *Journal of Water, Air and Soil Pollution*, Vol. 176, No. 1-4, pp. 113-137.
- Perera, B.J.C., James, B. and Kularathna, M.D.U. (2005) Computer Software Tool for Sustainable Water Allocation and Management - REALM. *Journal of Environmental Management*, Vol. 77, Issue 4, pp. 291-300.
- Selle, B. and Muttill, N. (2011). Testing the Structure of Hydrological Models using Genetic Programming, *Journal of Hydrology*, Vol 397, No. 1-2, pp 1-9.
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- Tran, D.H., Perera, B.J.C. and Ng, A.W.M. (2009). Comparison of Structural Deterioration Models for Stormwater Drainage Pipes, *Computer-Aided Civil and Infrastructure Engineering Journal*, Vol. 24, No. 2, pp 145-156.
- Tran, D.H., Perera, B.J.C. and Ng, A.W.M. (2010). Hydraulic Deterioration Models for stormwater Drainage Pipes: Ordered Probit Versus Probabilistic Neural Network, *ASCE Journal of Computing in Civil Engineering*, Vol. 24, No. 2, pp 140-150.