

Journal of Hydroinformatics

Official Journal of the IAHR–IWA–IAHS Joint Committee on Hydroinformatics

volume 14 | issue 2 | April 2012

Contents

- 253 Improved methodology for processing raw LiDAR data to support urban flood modelling – accounting for elevated roads and bridges
A. F. Abdullah, Z. Vojinovic, R. K. Price and N. A. A. Aziz
- 270 Pareto-optimality and a search for robustness: choosing solutions with desired properties in objective space and parameter space
Gift Dumedah, Aaron A. Berg and Mark Wineberg
- 286 Uncertainty-based automatic calibration of HEC-HMS model using sequential uncertainty fitting approach
S. Jamshid Mousavi, K. C. Abbaspour, B. Kamali, M. Amini and H. Yang
- 310 Contribution of parallel NSGA-II in optimal design of water distribution networks
Sandro Artina, Cristiana Bragalli, Giovanni Erbacci, Angela Marchi and Marzia Rivi
- 324 Gene-expression programming to predict scour at a bridge abutment
H. Md. Azamathulla
- 332 A weather radar data processing module for storm analysis
Ioannis N. Daliakopoulos and Ioannis K. Tsanis
- 345 Near-optimal scheduling of device activation in water distribution systems to reduce the impact of a contamination event
S. Alvisi, M. Franchini, M. Gavanelli and M. Nonato
- 366 Numerical simulation of flood waves and calculation of exerted forces on the cylindrical piers in contraction channels with different cross section profiles
Parviz Ghadimi and Arsham Reisinezhad
- 386 Dynamic optimal control for groundwater optimization management with covariates
Furong Yu, Wenxi Lu, Ping Li, Xin Xin and Jun Li
- 395 Framework for multi-criteria decision management in watershed restoration
Angel Udías, Lorenzo Galbiati, Francisco Javier Elorza, Roman Efremov, Jordi Pons and Gabriel Borrás



- 412 Development of two-dimensional water quality management model using the reliability analysis method
Sang-Ho Kim, Kun-Yeun Han, Ji-Sung Kim and Joonwoo Noh
- 424 Multiscale nonlinear model for monthly streamflow forecasting: a wavelet-based approach
Maheswaran Rathinasamy and Rakesh Khosa
- 443 Parameter-dependent convergence bounds and complexity measure for a class of conceptual hydrological models
Saket Pande, Luis A. Bastidas, Sandjai Bhulai and Mac McKee
- 464 Fusegates selection and operation: simulation–optimization approach
Abbas Afshar and Zeinab Takbiri
- 478 Implementation of artificial neural network technique in the simulation of dam breach hydrograph
Vahid Nourani, Habib Hakimzadeh and Alireza Babaeyan Amini
- 497 Calibration of a conceptual rainfall–runoff model using a genetic algorithm integrated with runoff estimation sensitivity to parameters
Shiang-Jen Wu, Ho-Cheng Lien and Che-Hao Chang
- 512 Forecasting the winter shower over India through a neurocomputing approach
S. S. De, Goutami Chattopadhyay, Suman Paul, Soumyadip Chattopadhyay and D. K. Haldar
- 523 Integrating three lake models into a Phytoplankton Prediction System for Lake Taihu (Taihu PPS) with Python
Jiacong Huang, Junfeng Gao, Georg Hörmann and Wolf M. Mooij
- 535 Book review
Orazio Giustolisi and Ole Mark