Contents

381  Adaptive management of water resources based on an advanced entropy method to quantify agent information
    Kun Cheng, Shuai Wei, Qiang Fu, Wei Pei and Tianxiao Li

397  Multi-objective multi-pollutant waste load allocation model for rivers using coupled archived simulated annealing algorithm with QUAL2Kw
    Motahareh Saadatpour, Abbas Afshar and Helaleh Khoshkam

411  Impact of land use on water resources via a Gaussian process emulator with dimension reduction
    Nathan E. Owen and Lorena Liuzzo

427  Approach to robust multi-objective optimization and probabilistic analysis: the ROPAR algorithm
    Oscar O. Marquez-Calvo and Dimitri P. Solomatine

441  High-resolution hydrologic forecasting for very large urban areas
    Hamideh Habibi, Ishita Dasgupta, Seongjin Noh, Sunghee Kim, Michael Zink, Dong-Jun Seo, Matthew Bartos and Branko Kerkez

455  A comparative study in aquifer parameter estimation using MF’ree point collocation method with evolutionary algorithms
    Alice Thomas, T. I. Eldho, A. K. Rastogi and Partha Majumder

474  Influential parameters on submerged discharge capacity of converging ogee spillways based on experimental study and machine learning-based modeling
    Kiyoumars Roushangar, Ali Foroudi and Mojtaba Saneie

493  Investigation on hydrothermal processes in a large channel-type reservoir using an integrated physics-based model
    Jian Sun, Man Zhang, Jianjun Zhou and Binliang Lin

510  Recognizing factors affecting decline in groundwater level using wavelet-entropy measure (case study: Silakhor plain aquifer)
    Mehdi Komasi and Soroush Sharghi