TOTAL CONTENTS

No. 1
Application of GIS-based SCS-CN method in West Bank catchments, Palestine
.......................................................... Sameer SHADEED, Mohammad ALMASRI (1)
Application of HEC-HMS for flood forecasting in Misai and Wan’an catchments in China
.......................................................... James Oloche OLEYIBLO, Zhi-jia LI (14)
Spanning tree-based algorithm for hydraulic simulation of large-scale water supply networks
.......................................................... Huan-feng DUAN, Guo-ping YU (23)
Mathematical model of wave transformation over radial sand ridge field on continental
shelf of South Yellow Sea...................................... Yao-zhong YANG, Wei-bing FENG (36)
New acoustic system for continuous measurement of river discharge and water temperature
.......................................................... Kiyosi KAWANISI, Arata KANEKO,
Shinya NIGO, Mohammad SOLTANIASSL, Mahmoud F. MAGHREBI (47)
Analysis of flow around impermeable groynes on one side of symmetrical compound
channel: An experimental study
.......................................................... Hassan Safi AHMED, Mohammad Mahdi HASAN, Norio TANAKA (56)
Improved design of guide wall of bank spillway at Yutang Hydropower Station
.......................................................... Ji-bao WANG, He-chun CHEN (67)
Vibration analysis of hydropower house based on fluid-structure coupling numerical method
.......................................................... Shu-he WEI, Liao-jun ZHANG (75)
Development of site suitability analysis system for riverbank filtration
.......................................................... Sang-il LEE, Sang-sin LEE (85)
Application of direct computing of one-way coupling technique in seismic analysis of
concrete gravity dam.......................................... Quoc Cong TRINH, Liao-jun ZHANG (95)
Elastoplastic cup model for cement-based materials................. Yan ZHANG, Jian-fu SHAO (102)
Assessment of early-age cracking of high-performance concrete in restrained ring specimens
.......................................................... Quang-phu NGUYEN, Lin-hua JIANG, Qiao ZHU (113)

No. 2
Hydrological daily rainfall-runoff simulation with BTOPMC model and comparison with
Xin’anjiang model
.......................................................... Hong-jun BAO, Li-li WANG, Zhi-jia LI, Lin-na ZHAO, Guo-ping ZHANG (121)
Rainwater harvesting to alleviate water scarcity in dry conditions: A case study in Faria
Catchment, Palestine........................................... Sameer SHADEED, Jens LANGE (132)
System dynamics model of Suzhou water resources carrying capacity and its application
.......................................................... Li CHENG (144)
Improved PSO algorithm based on chaos theory and its application to design flood hydrograph

Si-fang DONG, Zeng-chuan DONG, Jun-jian MA, Kang-ning CHEN (156)

Storm surge model based on variational data assimilation method

Shi-li HUANG, Jian XU, De-guan WANG, Dong-yan LU (166)

Analytical study on water hammer pressure in pressurized conduits with a throttled surge chamber for slow closure

Yong-liang ZHANG, Ming-fei MIAO, Ji-ming MA (174)

Theoretical and numerical study of hydraulic characteristics of orifice energy dissipator

Ning HE, Zhen-xing ZHAO (190)

Experimental study of drag reduction in flumes and spillway tunnels

Ying-kui WANG, Chun-bo JIANG (200)

Numerical simulation of flow past circular duct

Ze-gao YIN, Xian-wei Cao, Hong-da SHI, Jian MA (208)

Roughness coefficient and its uncertainty in gravel-bed river

Ji-Sung KIM, Chan-Joo LEE, Won KIM, Yong-Jeon KIM (217)

Tensile reliability analysis for gravity dam foundation surface based on FEM and response surface method

Tong-chun LI, Dan-dan LI, Zhi-qiang WANG (233)

No. 3

Simulating streamflow and water table depth with a coupled hydrological model

Alphonce Chenjerayi GUZHA, Thomas Byron HARDY (241)

Determination of minimum flood flow for regeneration of floodplain forest from inundated forest width-stage curve

Song-hao SHANG, Xiao-min MAO (257)

Comparison of performance of statistical models in forecasting monthly streamflow of Kizil River, China

Shalamu ABUDU, Chun-liang CUI, James Phillip KING, Kaiser ABUDUKADEER (269)

Geochemical modeling of groundwater in southern plain area of Pengyang County, Ningxia, China

Pei-yue LI, Hui QIAN, Jian-hua WU, Jia Ding (282)

Analytical solution based on stream-aquifer interactions in partially penetrating streams

Yong HUANG, Zhi-fang ZHOU, Zhong-bo YU (292)

Application of artificial neural network to calculation of solitary wave run-up

You-xing WEL, Deng-ting WANG, Qing-jun LIU (304)

Numerical simulation of sediment deposition thickness at Beidaihe International Yacht Club

Cheng-gang LU, Zhou-hu WU, Guo-feng HE, Jie ZHU, Gui-yong XIAO (313)

Orifice plate cavitation mechanism and its influencing factors

Wan-zheng AI, Tian-ming DING (321)

Energy efficiency in a water supply system: Energy consumption and CO_{2} emission

Helena M. RAMOS, Filipé VIEIRA, Dídia I. C. COVAS (331)

Experiments and numerical simulations on transport of dissolved pollutants around spur dike

Li-ping CHEN, Jun-cheng JIANG (341)

Coupling interaction between biodiversity and aquatic habitat area in Western Route Project vicinity

Shi-min TIAN, Zhao-yin WANG, Xiang-jun LIU, Shi-kui LIANG (354)
No. 4

Data assimilation using support vector machines and ensemble Kalman filter for multi-layer soil moisture prediction.......................... Di LIU, Zhong-bo YU, Hai-shen L (361)

Effect of calibration data series length on performance and optimal parameters of hydrological model

Chuan-zhe LI, Hao WANG, Jia LIU, Deng-hua YAN, Fu-liang YU, Lu ZHANG (378)

Experimental study of relationship between average isotopic fractionation factor and evaporation rate............................................ Tao WANG, Wei-min BAO, Hai-li XU, Zhen ZHU, Si-min QU, Peng SHI, Hai-ying HU, Rui-qi FAN, Qian LI (394)

Evaluation of high-resolution satellite precipitation products with surface rain gauge observations from Laohahe Basin in northern China

Shan-hu JIANG, Li-liang REN, Bin YONG, Xiao-li YANG, Lin SHI (405)

Hydrological assessment of TRMM rainfall data over Yangtze River Basin

Huang-he GU, Zhong-bo YU, Chuan-guo YANG, Qin JU, Bao-hong LU, Chuan LIANG (418)

Multi-approach analysis of maximum riverbed scour depth above subway tunnel

Jun CHEN, Hong-wu TANG, Zui-sen LI, Wen-hong DAI (431)

Establishment and evaluation of operation function model for cascade hydropower station

Chang-ming JI, Ting ZHOU, Hai-tao HUANG (443)

Spatial variation of health risk of groundwater for drinking water supply in Mingshan County, Ya’an City, China......................... Fu-quan NI, Guo-dong LIU, Yao-sheng TAN, Yu DENG (454)

Human wetland dependency and socio-economic evaluation of wetland functions through participatory approach in rural India

Malabika BISWAS, Nihar R. SAMAL, Pankaj K. ROY, Asis MAZUMDAR (467)