

# Contents

## Theme1

### *Hydrological science and engineering for solving water problems*

#### **Macro-hydrology and watershed management in Southeast Asia**

Nick A Chappell, Martin Fowell, Sukanya Vongtanaboon, Wlodek Tych, Marian Solera-Garcia and Kawi Bidin

#### **Study on Method for Comprehensive Assessment of Water Resources Reproducible Ability of the Yellow River**

Chen Shouyu, Li Min

#### **Simulating monthly streamflow changes for Upper Changjiang, China, under climatic change scenarios**

Ming-ko Woo, Tian-yu Long, Robin Thorne

#### **A Decomposed Approach to Optimal Planning and Operation of Water Supply Networks**

Dr.-Ing. Buren Scharaw, Prof. Dr.-Ing. Pu Li

#### **A new method for rainfall spatio-temporal variability analysis based on information entropy**

CHUNPING OU, JUN XIA, G.H. HUANG

#### **Downstream effects on peak-floods of urban flood-detention release rates: Blackberry Creek Watershed, Kane County, Illinois, USA.**

David T. Soong

#### **U.S. EPA Research on Urban Stormwater Pollution Control**

Anthony N. Tafuri, P.E., D.WRE; Richard Field, P.E., D.WRE; Michael Borst

#### **Variable Fuzzy Recognition Methodology for Groundwater Vulnerability Assessment**

CHEN Shou-yu, WANG Guo-li

#### **The Build-up of Green-blue Water System**

Zhao Chang-sen, Xia Jun

#### **Application and review of some methods for identifying of hydrologically homogeneous regions**

Zhang Jingyi, Xu Haiqing, He Hui

#### **Historical temporal trends of hydro-climatic variables and runoff response to climate change and**

**their relevance in water resource management in the Hanjiang basin**

Hua CHEN , Sheng-lian GUO, Chong-yu Xu , Vijay P. SINGH

**The Regional Hydrology of Extreme Floods in Urbanizing Drainage Basin**

OPPONG ANTHONY KODOM, WILLIAMS ANDREWS KOFI

**Changes of Pan Evaporation in the recent Years in China**

QIU Xin-fa, ZENG Yan, LIU Chang-ming, PAN Ao-da, Gao Ping

**Hydrologic Analysis for Evaluations of Stream Grade Control Structures in Loess Soil Region**

Roy R. Gu, Marshall Boyken, Zhang Jian, Li Yitian

**Inter-provincial Water Disputes and Countermeasures in the Changjiang River Basin**

XU Gao-Hong, GUO Shen-Lian

**The Role of Hydrology in Managing Muda Irrigation Scheme**

LT. Cho, Meng Chang

**Integrated Urban Watershed Management**

Michael A. Ports, PE, D. WRE, F. ASCE

**Stormwater Reclamation—Assessment, Benefits and Feasibility**

Roy R. Gu, Baoyu Gao, Hong Qin, Jian Zhang, Yitian Li

**Floods in Brahmaputra basin: causes and management**

U.C. SHARMA, VIKAS SHARMA

**Hydrological Impacts of Land Use Change on Lam Phra Ploeng Reservoir Sedimentation in Northeastern Thailand**

Kosit Lorsirirat and related

**The importance of fluvial processes and local geomorphology to the fate of groundwater arsenic in Asian delta systems**

Weinman, B., Goodbred, S., Zheng, Y., van Geen, L., Aziz, Z

**Potential evapotranspiration over humid and semi-arid regions: cases of Mekong River basin and Yellow River basin**

M. C. ZHOU, H. ISHIDAIRA , K. TAKEUCHI

**Coastal tsunami geomorphological impacts and sedimentation processes: case studies of modern and prehistorical events**

S. SHI, D. E. SMITH

**Problems & Challenges of Water Cycle Change & Water Security in China**

Xia Jun

**Discussion and demonstration of good area water circulation**

Ma zhijie, Xu xiaoyuan , Ju jiang

**COPULA METHOD FOR DERIVING JOINT DISTRIBUTIONS in WATER RESOURCES  
EnGINEERING**

Vijay P. Singh and Lan Zhang

**Conflicting Philosophies for Training the Wandering reach of the Lower Yellow River**

Li Yuanfa, Chen Junjie, Wu Caiping and Guo Huimin

**Application of artificial neural network to predict river stages in ice covered rivers**

Wang Jun, Fu Hui, Yi Mingkun

**Analysis of the law of density current evolution in Xiao Langdi Reservoir**

Li Shiju, Hu Yaobin

**The Influence of Taixi Colliery Exploiting Groundwater on Water urces Environment in Dongping  
Lake Area**

Li Shiju, Jiang Mingxin, Wang Jing

**Catastrophe Criterion Research of Soil Temperature involved the Effect of Groundwater Table**

Fu zhi-min, Zhou zhi-fang

**Numerical Simulation of Flows In Channel Bends**

Wei WenLi, Liu Zhe

**Research on three-Dimensional Finite Difference Model For Water Quality**

Wei WenLi, Zhao Hong

**Computation of one-Dimensional Dam-Break Flow Using Eno Scheme**

Wei WenLi, Guo Yongtao

**High- resolution Numerical Model for Shallow Water Flows and Water Quality**

Liu YU-Ling

**Research on Numerical Solution of Unsteady 2-D Open Channel Flows**

Liu Yuling , Zhou Xiaode

**NUMERICAL SIMULATION OF D DAM-BREAK FLOOD WAVES**

Liu Yuling

**The spatial and temporal variability of soil moisture on grasslands on the Loess Plateau of China**

PAN Chengzhong, SHANGGUAN, Zhouping

**Determination on variation point of annual runoff sequence of Shiyang River by R/S analysis**

Lan Ma, Xiaomei Wei

**The simulation of different options of saline water irrigation in Hetao irrigation District, Inner Mongolia, China**

Xiugui Wang, Jihong Lu, Weiguang Wang, Shuqing Yang, Wenming Hu

**Water Level Control at the End of Year of Longyangxia Reservoir Based on BP**

Wang Yi-min, Chang Jian-xia, Huang Qiang

**The Research of the River Water Configuration**

Wenyi Li, Shiguo Xu

**A water balance analysis of Zhalong Wetland 1956-2000**

Daqing Liu, Shiguo Xu

**THE RESEARCH OF THE RIVER WATER CONFIGURATION**

Wenyi Li, Shiguo Xu

**Evaluation on renewable resources and development situation of the porous confined water**

TAO Yue-zan, DING Feng, WANG De-shen

**One-dimensional Water Quality Model of River Subjected to Water Exchange between Surface and Ground Water**

TAO Yue-zan, WU Xian-de, ZHOU Lian-wei

**APPLICATION OF REEDBED IN GREY WATER RECYCLING – THE UK EXPERIENCE**

Shuming Liu, Shirley-Smith Christopher, Lisa Avery, David Butler, Christos Makropoulos, Fayyaz Memon

**A Bayesian probabilistic hydrologic model based on BP Artificial Neural Network**

Li Xiang-yang, Cheng Chun-tian, Lin Jian-yi

**Modeling and measurement of rainfall interception loss from a subtropical conifer - deciduous mixed forest, China**

Zhang Gong, Zeng Guang-ming, Jiang Yi-min, Huang Guo-he, Li Jian-bing, Tan Wei, Liu Hong-liang

**The effect of controlled drainage on outflow reduction, salt and nitrogen balances in YinNan Irrigation District, China**

Wan Luo, ZhongHua Jia, ShuXin Fang, Liang Wang

**The influence of micro-topographic properties and relative locations on riverine wetland hydrology**

**and water balance**

ZhongHua Jia, Wan Luo, WeiHua Jing, LiPing Fan

**Spatio-temporal changes of NDVI and their relations with climatological parameters and runoff in the Poyang Lake Basin**

GUO Peng

**Evaluation of Micrometeorological Models for Estimating Evapotranspiration from a Wheat Field in the Hetao Irrigation District of Yellow River Basin**

Bin HE, Hiroki OUE, Yi WANG, Keiji TAKASE

**River morphology and bank erosion: A case study in the Kaligandaki river valley, Nepal**

Sohan K. Ghimire

**The study of drought trend with utilization of standard precipitation index (spi) in Anzali wetland basin.**

Dr.Bahman, Ramzani

**Rainfall-effective runoff modeling**

A.Kabir, N.Noora, M. Koorkinejad

**Theoretical Analyses of the In-Phase and Out-of-Phase Relations between Seasonal Precipitation and Water Vapor and Their Applications in Monsoon**

**Onset and Retreat**

Er Lu, Xubin Zeng

**Effects of Astronomical Factors on Flood of Songhua River**

LI Hongxia

**The Flow field calculation and analysis of Acipenser Sinensis' spawning sites in Gezhouba Dam downstream**

Fu Xiao-li, Li Da-mei , Jin Guo-yu

**Preliminary Study on Hydrological Effect of Agriculture Activities in Hetao Region of Inner Mongolia**

Qiu Yaqin

**Comparison of Several Reference Evapotranspiration Methods for Itoshima Peninsula Area, Fukuoka, Japan**

Othoman ALKAEED, Clariza FLORES, Kenji JINNO, Atsushi TSUTSUMI

**Characterization of Rainwater Harvesting from Rooftop in Urban Area, Xi'an,China**

Wang Zhirong , Sun Changlei , Shao Mingan

**Analysis of the hydrological response of Zhalong wetland to changes in climate and human activities**

DAQING LIU, SHIGUO XU

**Hydrometeorological and hydrological characterization of Zhalong wetland**

DAQING LIU, SHIGUO XU

**Utilization and Protection of Stream Natural Functions**

Ziqiang Xia, Qiongfang Li, Cuiling Jiang, Qihui Chen and Guorong Yu

**IMPACTS OF HUMAN ACTIVITIES ON HYDROLOGICAL REGIME OF THE YELLOW RIVER**

Qiongfang Li, Ziqiang Xia, Xirong Ma

**Rainfall and Droughts in Arid and Semi-Arid regions of Rajasthan, India**

P.R. Rakhecha

**Regional Analysis of Mean Annual Flood in Nangro Aceh Darusalam (NAD) Province, Indonesia**

Fransisca, Mulyantari

**DROUGHT ANALYSIS AND FORECASTING FOR AGRICULTURAL WATER MANAGEMENT IN AWASH RIVER BASIN, ETHIOPIA**

Desalegn Ch., M.S. Babel, A. Das Gupta

**Effects of the Operation of Chao Phraya Dam upon the Upstream Flood Hydraulics**

Sutham, Visutimeteegorn, Kanchit Likitdecharote, Suphat Vongvisessomjai

**Study on the Impact of Urbanization to the Flood Prevention & Storm Drainage of Tianjin**

Liu Jun, Zhang Jian-tao

**THE FLOOD CHARACTERISTIC OF HANJIANG RIVER AND ENSURING COUNTERMEASURES**

Zhang Xiaojun

**The analysis of regime of water resources in the source region of Yellow River**

Zhang chunlan, Wang yuming, Liu zhenxi

**Hydrological Risk Assessment for the Existing Earth Dam**

Xiaolin Wang, Faliang Gui, Teisong Hu

**METHOD TO REAL-TIME CORRECT IN TIDAL LEVEL FORECASTING OF AN ESTUARY**

Guofang Li, Ya Tan

**The multiple factor riverway current progress research of numerical circulation**

LI Zhan-song

**Distribution of the Resistance to the Yellow River Bed**

Su Qidong, Han Huiqing, YuMin, SunShilei

**Research on GRID-based Dynamic Water Balance Model of Jin River Basin**

ZENG Weihua, SUN Qiang, YANG Zhifeng

**Natural Renewability Assessment of Water Resources of Jin River Basin based on GRID Hydrological Cell**

ZENG Weihua, SUN Qiang, YANG Zhifeng

**Discussion on method of analyzing hydrological spatial difference**

Huang You-bo, Xia Jun, Li Chong-hao

**Semi-Active Control for Flow-induced Vibration of Hydraulic Arch Sluice**

YANG Shi-hao, QU Wei-lian

**Analysis of influence factors on normal water circulation in the basin**

Li Wensheng

**The Effects of ENSO Events on the Summer Precipitation in Song Hua River Basin**

Fuqiang Wang, Shiguo Xu

**Emergy assessment of water resources value of China's main rivers**

CHEN Dan , CHEN Jing , LUO Zhao-hui , CHU Lin-lin

**The Flow Characteristic of Culvert and Sluice And its Influence on the Oncemelania Diffusion**

JIN GUO-YU, LI DA-MEI, FU XIAO-LI & BAN XUAN

**Study on the Mutation Regularity of the Main Crop's Sensitive Index  $\lambda_i$  in Semi-arid Region**

Yang Bao-zhong ,Zhang Yun-feng, Shang Chong-jv, Zhang Ze-zhong

**Numerical Simulation of High-concentration Solid-liquid**

**Turbulent Flow in a Centrifugal Pump**

Si HUANG

**Study on Zhalong wetland distribution and its hydrographical genesis**

Xingju Wang, Shiguo Xu , Wenyi Li

**The freeze- thawing rule of seasonal frozen soil and its hydrological function in Zhalong Wetland**

WANG Xing-ju, XU Shi-guo, Wang Hao

**Dynamic study of algae in source water based on wavelet**

LU Jin-suo, HUANG Ting-lin, HAN Hong-da, HE Wen-jie, YIN Pei-jun

**Analysis on water-sediment evolution in river basin hydrological cycle in multi-time scales  
—A case study in QingJian river basin**

Bao Weifeng, Huang Jiesheng, ZhaoWei

**The evaluation of debris flow's influence on water resource distributing project and mitigation countermeasures**

LIU Jin-feng, OU Guo-qiang, YOU Yong

**The Annual Precipitation and Land Use Changes in Recent 0 Years in Chengdu city, Sichuan province, China**

Zhou Qi-gang

**Application of EFDC-WASP modelling system in water pollution control: A case study in the Nansha River**

NAN DONG, Baolin su, Haifeng jia, Hongtao ma, wei wei & shengtong cheng

**Characteristics of Phreatic Evaporation From the Layered Soil and Calculation Methods**

SHI Wen-juan, SHEN Bing, WANG Zhi-rong

**In-situ Determination Methods of Streambed Hydraulic Conductivity in Lower Reaches of the Yellow River, China**

WANG Zhi-hua SHU Long-cang WANG Wan-jie

**Appraisalment on Methods of Hydrological Trend Analysis**

Chen jie

**Study of Urban Water Supply Cost Computation and Meterage in Guangdong Province**

YANG Yang, LIU Zufa, JIANG Tao, CHEN Xiaohong, LIU Xia

**A Fast Iterative Tidal Harmonious Analysis Method base on Continuous Functions Least-square Method**

Ruyun Wang, Yaodeng Chen ,Hongwei Shen

**The Comparative Application of SIMHYD in Chinese Northern and Southern Zone**

XIANG ZHANG, XIAODAN CHEN, FRANCIS CHIEW, CAIYUN LIU

**A study of urban dew in Guangzhou, China**

Youhua Ye

**Flood forecasting model of BP network based on adaptive genetic algorithm**

Changna Lu, Ruyun Wang, Xingming Zhu

**Flood Frequencies Analysis Tansformed Model for Small Sample**

DONG Jie, TIAN Wei-jun

**The Analysis of Taoer River Flood Season Evaluative Fuzzy Statistics**

Jianwei Liu, Yingfei Liu

**The Research of Nenjiang River Flood Prediction of Dalai Area**

Yingfei Liu, Shiguo Xi, Jianwei Liu

**Theme 2**

*Development and application of new technologies in hydrological practices*

**A modeling blueprint for assessment of satellite-based flood forecasting in international river basins**

Nitin Katiyar, Faisal Hossain

**Models for optimum distribution of water resources in three hierarchies and their applications**

QITING ZUO, JUNXIA MA, ZENING WU

**Estimation of Water Resources Distribution in River Basin through GCM data**

Takashi KOBAYASHI, Toshiharu KOJIRI

**Study of small river restoration after water resources development: Yasumuro River experience**

NAOKI HAMANO, HIDEYUKI WATANABE, FUMIHIRO TOI, KENTARO TAKI, SHUICHI MAMA, MOTOI SEKI & NOBUYOSHI SUGINO

**Measures for lake ecotones restoration: Lake Biwa experience**

MASANORI SETA, KENTARO TAKI, TAKAHIRO NAKATSUJI & YOSHIYUKI TAKEUCHI

**A New Resource of Freshwater in High Latitude Area**

Xie Lixin, Ma Jia, Li Pingli, Wang Shichang, Chen Weibin, Cheng Fang

**GIS and web-based decision support system for regional water resource management and planning**

WENMING ZHANG, ZENGCHUAN DONG, DEZHI WANG, SHENGXIANG DING, QUNFANG FAN, YALI XUE

**Uncertainty Analysis on Spatially Variable Control Parameters: An Application of the Genetic Algorithm Coupled with SWMM**

Tianjun Fang, James E. Ball

**Automatically assigning elevation value to discontinuous submarine contours by Triangulated**

**Irregular Network when CAD data was transformed to GIS data**

Ru An, Qin Zhang, Xianrong Ding, Xiaoxun Tao, Wei Li

**Application of Ant Colony Optimization for Optimal Reservoir Operation**

S.Mohammad, Mortazavi.N

**Towards a new blueprint for catchment response modeling: development and application of the Representative and Elementary Watershed approach**

G.P.Zhang, H.H.G. Savenije

**Degeneration and Countermeasures of Water Resources System of the Changjiang River Delta**

DONG WANG, YUNLIANG SHI, JICHUN WU, SHAOMING PAN

**Study on the variation characteristics of water and sediment fluxes into the estuary of the Yellow River based on the dispatch of water and sediment**

Dong Wang, Shaoming Pan, Jichun Wu, Qingping Zhu

**Impact of Groundwater Irrigation on Streamflow in Nebraska**

Xun-Hong Chen and Fujiang Wen

**Mean scale avalanche hazard mapping**

E. Semakova

**Interactions between seawater, groundwater, and river water in the Yellow River Delta**

Makoto Taniguchi, Jianyao Chen, Yoshihiro Fukushima, Guanqun Liu

**Temperature Resulted from a Weather Generator for Climate Impact Studies in the Headwater of Yellow River Basin**

Xu Z. X., Zhao F. F

**Genetic Algorithm Used for Optimization in Decision Making in the Operation of A Multi-Objective Water Resources System**

Fang Hong-yuan

**Experimental study on beneficial reclamation of oilfield produced water**

Wang Beifu, Yu Shuili, Dong Xigui, Ban Hui, Miao Baolin

**Uranium ISL Mining and Leach-field Groundwater Administration**

Zhang Xiaowen, Li Qin, Zhou Yaohui, Lei Zeyong

**A GIS-based distributed non-point source pollution modeling approach applied to the Poyang Lake Watershed**

Baojun ZHANG, Xiaoling CHEN, Peng GUO, Shaogang ZOU, Zhirui HU, Haichong YU,

**Country drinking water security GIS in the mountainous and hills region of western most edge of Sichun natural basin of China**

Fuquan Ni, Rongchao Ma, Lihua Zhang

**Grey correlation analysis between incidence of liver cancer and drinking water quality in eastern-south coastal areas of china**

Fuquan Ni, Rongchao Ma, Lihua Zhang

**DRINKING GROUNDWATER QUALITY PROBLEM AND CONTROL OF KASCHIN-BECK DISEASE IN THE CHANGBAI MOUNTAINOUS REGION OF CHINA**

Fuquan Ni, Rongchao Ma, Lihua Zhang

**Estimation of hydraulic characteristics of the shallow aquifer system, Qingtongxia Irrigation District Ningxia, China**

Fei liangjun, Fang shuxing, Zhao xinyu

**Extract average hillslope length and the application to SWAT Model**

Jiang Hai, Huang Jie-sheng, Wan Xi-chun , Zhao Wei

**Effect of DEM Data resolution on extracted landscape parameters and runoff simulation in SWAT Model**

Jiang Hai, Huang Jie-sheng, Wan Xi-chun, Zhao Wei

**Artificial Neural Network Model for Groundwater Level Forecasting of the Minqin Region in Northwest China**

Zai-lin Huo, Shao-yuan Feng, Wang-cheng Li, Shao-jun Cheng, Wei-Wang

**Using ASTER Remote Sensing Data for Catchment Rainfall Runoff Modeling**

LING Feng, WANG Cheng, ZHANG Qiu-wen

**Applications of the hybrid accelerating generic algorithm in parameter optimization of hydrology model based on the niche technique**

LI Na, MEI Ya-Dong , WANG Xiang-San, ZHAO Wei

**A Simple Method for Simulation of Flood Submerging Range based on GIS**

Wei Bai, Xiaohui Lei

**Fuzzy pattern recognition coupled with Nerve Network based on the BP and the Genetic algorithm making for hydrology forecast: model and application**

Ranhang Zhao, Shouyu Chen

**EVALUATION OF GENETIC ALGORITHM IN SCS-CN METHOD**

S.Mohammed Mortazavi.N

**Analysis for Annual Maximum Precipitation Series for State of Selangor Using Probability Weighted Moments**

Masimin, Sobri Harun

**The Technique of Complex Recharge Estimation for Groundwater Flow Simulation in Tropical Floodplain with Quaternary Sediments, Thailand**

Phattaporn Mekpruksawong, Tsutomu Ichikawa, Tadashi Yamada

**Water Cycle Mechanism in Semiarid Area**

Ye Aizhong, Xia Jun, Qiao Yunfeng, Wang Gangsheng<sup>2</sup>

**Experimental studies on the effects of circle rate on transfer and distribution characters of soil moisture and nitrate nitrogen of intermittent infiltration under surge flow irrigation**

Jia Hui, Fei Liangjun, Zhang Hongwei

**Sensitive Analysis for the Parameters in SWAT Model Based on Monte Carlo Method**

LIU Xing, XIA Jun, WANG Zhong-gen, WANG Gang-sheng, LIN Yao-ming

**Weather Radar- Based the Rainfall Data Assimilation**

LI Lu, XIA Jun

**WATER BALANCE EVALUATION AND REGIONALIZATION OF ALBANIA RIVERS BASIN**

NIKO PANO, BARDHYL AVDYLI

**Risk management for the improved operation of the Three Gorges Dam using seasonal streamflow prediction**

Kaiqin Xu, Casey Brown, Hyun-Han Kwon, Abedalrazq Khalil ,Upmanu Lall and Masataka Watanabe

**Monthly streamflow simulation for Upper Changjiang basin above the Three Gorges, China**

Tian-yu Long, Ming-ko Woo, Robin Thorne

**Study on Multi-objective Scenario Analysis Method for Assessment of Water Resources Carrying Capacity**

CHEN Shao-jun , FENG Shao-yuan , LI Wang-cheng , HUO Zai-lin , Wang Wei

**Study on the Relationship between Groundwater and the Teganuma Lake, Chiba, Japan**

Changyuan Tang, Yasuo Sakura, Takuro Yamaguchi, Masami Kawamori and Yintao Lu

**Impact of urbanization on local groundwater quality and water supply in the Pearl River Delta**

Lu Yintao, Tang Changyuan, Chen Jianyao, Sakura Yasuo

**Urbanization and green-planting impacts on regional summer precipitation in megacity--Beijing**

Chaolin ZHANG Shiguang MIAO Fei CHEN Qingchun LI Chongping JI

**Influences of Cropping Structure Adjustment on Shallow Groundwater**

Li Xinbo, Hao Jinmin, Ding Zhongyi, Zhang Fugang, Niu Lingan.

**Driving Forces for Groundwater Table Drawdown in Intensive Agricultural Regions--A Case study of Quzhou County of the Hebei Plain**

Li Xinbo, Hao Jinmin, Niu, Lingan, Zhang Fugang, Yang Jun

**Numerical simulation of cooling water dispersion for coastal power station**

LI Da-yong, DONG Zeng-chuan, WANG Zhi-gang

**The Application of First Order Second Moment Methods to the Water Project Management**

Pan Jian Yan Wen Yao Zhang Naiji Liu Huiting Mai Rongjun Chen Hui

**Study on the Integrated Evaluation Index System of Wheat of High Yield, Drought Resistance and Water Saving**

Dong Baodi, Liu Mengyu, Zhang Zhengbin

**Characterize Interaction of Surface and Ground Water along the Pecos River by using Time-series Analysis of Observed Water Levels**

Zhuping Sheng, Alyson McDonald, Gang Xiang, and Charles Hart

**Hydrological drought Frequency Distribution Analysis**

**Case Study: Gharasoo River Basin**

M. R. Khazae

**Application of Remote Sensing to Water Resources Management**

Donghui Wan, Jun Xia

**Application of Water-quality Model Based on GIS to Water Environment Management**

Zhang Li

**Evaluation of water for drinking and irrigation purpose in Dohuk governorate (case study)**

Dr. Adil Mohammed Raheem, Mahdi Salih Yaseen, Ramadhan, Hamza Mohammed

**Application of SWAT and VIC to the East River in South China**

CHEN Ji, WU Yiping

**Understanding the Effect Factors on Water Resources for Hong Kong**

CHEN, Ji

**Impact of Land Use Change on Water and Sediment Discharge in the Longchuanjiang Basin, Upper Yangtze River**

Yun-Mei Zhu, X.X. Lu and Yue Zhou,

**Evaluation of important roles of Qanats in Iran**

Dr.Fardin, Boustani

**Mechanisms of Forming Saline Plots in the Irrigated Land in Arid and Semiarid Regions**

Tetsuo KOBAYASHI, Hiroyuki CHO, Takemasa KANEKO, Daisuke YOKOYAMA, Weizhen WANG

**Application of Nonlinear Bilevel Programming to Calibrate the Xinanjiang Model**

Jiang Yan, Hu Tiesong, Wu Xianing, Gui Faliang, Wu Fengyan

**A study of Rainfall -Infiltration in North China Mountainous Region using Environmental Isotopes**

Houshibin', Songxianfang, Yujingjie, Hukun, Yangcong, Zhangguangying

**GIS-based Hydrological Modelling: A Comparative Study of HEC-HMS and the Xinanjiang Model**

Mohammad Bakir, Zhang Xingnan

**Irrigation Planning Based on Genetic Algorithms: A Case Study of Xingdian Irrigation District**

Guozhu Li, Wei Qu and Shuwen Niu

**A Study on Hydrological Effects to Land Use/Cover Dynamic Change in the Upper Reaches of Minjiang River**

Ainong Li, Angsheng Wang, Wenlan Feng, Jinfeng Liu, Ji Zhu, Qiang Feng

**The dynamic change of water recourses in XiJiang by using GIS technique and Remote Sensing data**

DILINUER Aji, KONDOH Akihiko

**Remote sensing inquisition and the pollution reason analysis of Water pollution status of West River in Pearl River Delta**

Zhang Yinan, Deng Ruru

**Runoff Change law based on Hilbert-Huang Transform**

Zhao,Xuehua, Huang Qiang

**Study on stable isotope hydrological processes in North China mountainous area**

Yang Cong, Yu Jingjie, Song Xianfang, Liu Xiangchao

**Estimation of aquifer parameters using Ant Colony Optimization**

S.Mohammad, Mortazavi.N

**Discharge Calculation Methods for Real-Time Discharge Monitoring Using Horizontal Acoustic Doppler Current Profiler (H-ADCP)**

HENING HUANGP, FAJUN WANGP

**<sup>P</sup>Flood Frequency Analysis For Malaysian Rivers**

Mohd Fozi Ali, Graham Copeland

**The Fuzzy Optimization For Yellow River Diversion Projects**

Li yanbin, Xu jainxin, Huang qiang

**Hybrid particle swarm optimization algorithm for conceptual rainfall-rainoff model**

Jiang Hai, Huang Jie Sheng

**Application of genetic algorithms to parameter optimization of hydrology model**

Jiang Hai, Huang Jie Sheng

**Effect of Different Tillage on the Variation of Soil Moisture and the Water Use of Winter Wheat in the North China Plain**

SUN Hongyong, LIU Changming ZHANG Xiyong, CHEN Suying , PEI Dong

**Modeling solute transport through long heterogeneous soil column during steady saturated water flow**

Guangyao Gao, Shaoyuan Feng

**Reconstruction and analysis of spatial-temporal distribution of groundwater table in north and northeast of China**

Zhenghui Xie, Xing Yuan

**Study on robust estimation and forecasting method of real-time flood**

ZHAO CHAO, BAO WEI MIN

**Three-dimensional Numerical Simulation of Thermal Discharge in Coastal Area**

Lai XiJun

**Optimization running of multi-reservoirs-system based on a hybrid dynamic programming**

ZHANG Li-bing,, CHENG Ji-lin, JIN Ju-liang, Zhang Jian

**Fuzzy pattern recognition model for water quality evaluation based on principle of maximum entropy**

JIN JULIANG, ZHANG YOUFU, WEI YIMING, TANG LIHUA

**The Influence of Prior Knowledge on Hydrologic Parameter Inversion Using DNA Technique**

Faliang Gui, Xiaolin Wang, Teisong Hu

**Risk Comprehensive Evaluation of Water Supply in Middle and Low Reach of Hanjiang River after the Middle Route of South-to-North Water Diversion**

Liu Tao, Shao Dong-guo, Gu Wen-quan

**Research on GIS-Based Environmental Safety Management Information System of Coastal Waters**

GUAN Youhai, FENG Qimin

**Distribution of water resource and the impacts of water factor on the community characteristics of desert riparian forests in the Tarim River valley**

Liu Jiazhen, Li Weihong, Chen Yaning

**Characteristics of multi-timescale of the annually variations of Huolin River flow and its effects analysis**

LU Xiao-ning, Deng Wei, Zhai Jin-liang

**Mapping water reuses within reservoir cascades in irrigation district**

Cai Xueliang, Cui Yuanlai

**Comparative study on multi-branch river runoff forecasting method**

WANG Rui, XIA Jun'

**Baseflow separation in the source regions of the Yellow River**

Liqun Chen, Changming Liu'

**Application of Genetic algorithm optimizing support vector machine in water demand**

Lingling ZHANG

**Effect of Precipitation and Mulching Measures on Soil Moisture Variation**

Zhang Qiuying, Li Fadong, Ou Guoqiang, Song Xianfang, Tang Changyuan

**Study on the Integrated Prevention and Treatment Divisions of Miyun Reservoir Basin: Base on RS and GIS**

Li Yongfu, Dang Anrong, Jia Haifeng

**Studies on Soil Water Resources and Soil Moisture Control**

Yan Meijun

**Application of extension method to similar analysis of rainstorms in a river basin**

JUN NIU, ZENGCHUAN DONG, ZHONGMIN LIANG

**Study on un-sustainability of surface water and ground water resources in Huaisha river basin by environmental isotopic technology and hydrochemistry**

Liu Xiangchao, Xia Jun, Song Xianfang, Yu Jingjie, Yang Cong

**Regional Mode of Limited Irrigation in the North China Plain**

Ding Zhongyi, Hao Jinmin, Niu Lingan, Zhang Fugang

**Numerical Simulation on 2-D Seepage Flow of Earth Dam with Finite Analytic Method**

XIANG Bo, HUAI Wenxin, YANG Zhonghua

**The Design and Development of Visual COM of Underground Water**

Weidong Zhao, Yunxia Li, Jiazhong Qian

**Application of the multi-objective fuzzy optimization model to water resources system planning and management**

ZHOU Hui-cheng, ZHU Yong-ying

**Application of the fuzzy reasoning based on rough sets theory in groundwater quality assessment**

ZHU Yong-ying, ZHOU Hui-cheng

**Study on Method and Theory of the Flood Disaster Evacuation System**

LI Fa-wen, ZHANG Xing-nan, FENG Ping

**Hydrodynamic and Environmental Effects of Reclamation around Semienclosed Bay**

Qinhua Fang, Yuwu Jiang, Luoping Zhang, Huasheng Hong

**Review on the isotopic hydrograph separation methods**

QU Si-min, BAO Wei-min, Shi Peng

**Study on Marine Oil Spill Response Information System Based on WebGIS**

Liao Guoxiang, Xiong Deqi

**Study on Minimum Ecological Water Demand in Zha Long Wetlands**

Xiangqian Dai, Minjian Chen

**Change on Water Circulation Mode Affected by Water Resource Development in Shiyang River Basin**

Qian Yunping, Gao Yajun, Jiang Xiuhua

**Application of Infiltration Velocity Curve for Calculation of Runoff-Generating in the North China Plain**

HU Hao-yun, GUO Feng-tai, REN Xiao-li

**Human-induced Hydrological Characteristic Alternation of Longitudinal Range—Gorge Region, Southwest, China**

DING Wen-rong

**Concept of System and Methodology for Watershed Water resource Integrated management**

DING Wen-rong

**A fast iterative tidal harmonic analysis method base on continuous functions least-square method**

Wang Ruyun, Chen Yaodeng, Shen Hongwei

**Research on wavelet subband prediction model for monthly discharge time series**

ZHOU HUI-CHENG, PENG YONG

**Modeling Links Between Hydrology and Irrigated Soil Salinity in a Data Sparse Environment, Inner Mongolia, China**

Benjamin Runkle, Xu Liang, Fanghua Hao, Yong Yue, Peng Li

**Theme 3**

*Modelling technique in water resources planning and management*

**Enhancements of the Simulation Library ILM-River for an Integrated Water Resources Management**

Torsten Pfuetzenreuter, Thomas Rauschenbach

**STREAMFLOW FORECASTING USING NEURO-FUZZY INFERENCE SYSTEM**

UMAMAHESH V. NANDURI, PRAKASH C. SWAIN

**Appropriate hydrological scales to achieve output uncertainty goals**

Martijn J. Booij, Charles S. Melching

**A New Method for Modeling Flow Duration Curves and Predicting Streamflow Regimes under Altered Land Use Conditions**

Quanxi Shao, Lu Zhang, Yongqin David Chen

**Reservoir risk operation based on watershed modeling uncertainty estimation**

Wu Xin-yu, Cheng Chun-tian<sup>1</sup>, K.W.Chau

**Passive Microwave Remote Sensing of Snow Depth Estimation over Iran Using Chang and Rott Algorithms**

A.A. Matkan

**Climate Change Impacts on Snow and Glaciers of the Hindu Kush-Himalayas: challenges of managing increasing catastrophic floods and decreasing lean flows in the Himalayas.**

Suresh Raj Chalise, HKH-FRIEND

**Distributed Modeling and Analysis for Regional Water Resource Vulnerability Assessment**

F. Benjamin Zhan, Guangyu Wu

**Study on the model of dynamic simulation of water resources' sustainable utilization on the regional scale**

Liu dan, Ji changming, Mei yadong

**Study of the hierarchical strategies and management for ecological water demand in arid inland river basins in northwest China**

Li Zongli, Feng Qi, Shen Qinglin

**Studying and Application for Facing the Integration Method of the Flood Control Decision Subject**

Liang Guo-hua, Peng-hui, Wang Guo-li

**Framework of Data Integration on Hydrology and Water Resources**

PING AI, XI CHEN

**Study on the indicators system and the model of comprehensive evaluation of the regional sustainable utilization of water resources**

Liu dan, Ji changming, Mei yadong

**Study on a grid-based rainfall-runoff model and its hydrological modeling uncertainty by initial soil water content**

Jintao Liu, Xi Chen, Jie Feng

**Intelligent Forecasting Mode and Approach of Mid and Long Term Intelligent Hydrological Forecasting**

Guo yu, Chen Shouyu

**Use of Fuzzy Programming Decision model for Pollution Control System of Water Environment**

Guo yu , Chen Shouyu

**Application in Manas river valley of distributed hydrological model on the basis of DPLSR model for Urban water demand prediction basing on uncertainty analyses**

Hu Dexiu, Zhou Xiaode

**Multi-person Multiobjective Fuzzy Risk Decision-Making Model for Supply Water**

Shao Dong-guo, Liu Tao

**Small-watershed Information System and Its application in Liaoning On the optimal models of the water distribution networks of field in the mixed irrigation districts in arid inland river basins in northwest China**

Li Zongli, Shen Qinglin, Feng Qi

**Simulation and optimization of basin water resources system analysis**

Zou yanfen, Wei xiaoping

**Assessment of the Impact of Forestry Planting on Low Flows in the Shag River Catchment, New Zealand, Using the Topnet Model**

Zhijia (Harry) He, Ross Woods

**Research on GRID-based Dynamic Water Balance Model of Jin River Basin**

ZENG Weihua, SUN Qiang, YANG Zhifeng

**Natural Renewability Assessment of Water Resources of Jin River Basin based on GRID Hydrological Cell**

ZENG Weihua, SUN Qiang, YANG Zhifeng

**Evaluation of Artificial Neural Networks in Forecasting Short-term and Mid-term Streamflows**

Saeid Morid, Saeid Soltani

**An integrated fuzzy and grey model for groundwater quality assessment in Zhangji well field**

Yong LIU, Jiazhong QIAN, Ruzhong LI, Jiaquan WANG

**A New Algorithm for Long-term Optimal Operation of Cascade Multipurpose Reservoirs Group**

Yadong Mei, Ying Xiong

**Studying on Method for Evaluating Environmental Carrying Capacity of Ground Water**

Baohui Men, Changming Liu, Jun Xia

**Conjunctive Use of AVSWAT and ORYZA2000 Model to Study the Scale Effect of Water Productivity for Rice in Small Watershed of Irrigation System in South-China**

Dai Jun-feng, Cui Yuan-lai, Li Ya-long, Dong Bin, Cai Xue-liang

**Game Analysis of Water Rights Transaction in Optimizing Allocation of Water Resources**

Feng Wenqi

**THE CONSTRUCTION OF BASIN RUNOFF GENERATION MODEL WITH CONSIDERATION ON HUMAN ACTIVITIES**

Xiaohui Lei, Hao Wang, Dayong QIN, Wei Bai

**Use of unit source area and small watershed data for model calibration and assessment of downstream runoff and sediment response for a watershed in Southwestern Oklahoma, USA**

Michael W. Van Liew<sup>1</sup>, Patrick J. Starks<sup>1</sup> and Colleen H. Green<sup>2</sup>

**A Distributed Time-Variant Gain Model applied to the Yangtze River**

WANG MIAOLIN, XIA JUN

**Reasonable Allocation and Dispatching Model Of Water Resource System for Bao'an District, Shenzhen City**

Wang Dezhi, Dongzengchuan, Ding Shengxiang

**The optimal planning mathematical model and application of water saving irrigation engineering in the arid region**

Bai Dan, Wang Quanjiu

**Simulation of rainfall-runoff process by artificial neural networks and HEC-HMS model (case study Zard river basin)**

Mehrdad Akbarpour

**Research on Application of SD-MOP integrated Model in Water Resource planning--A Case Study of Tianjin city**

Zhang Hong-wei, ZHANG Xue-hua, Guo Huai-cheng, ZHANG Bao-an

**The Evolution Law of Water Resources in Weihe Basin Based on Distributed Hydrological Model**

Zuhao zhou, Yaqin Qiu, Yangwen Jia, Hao Wang, Denghua Yan, Xiang Yuluo, Jiahua Wang

**Stochastic space-time regional rainfall modeling adapted to historical rain gauge data**

Zepu Zhang

**Application of Multi-objective optimization for water supply system decision support**

Lijie Cui and George Kuczera

**Water Quality Classification Model: The Bagmati River in Kathmandu Valley, Nepal**

Bandana Pradhan

**Effects of Vegetations on Infiltration Processes and Soil Water Contents in Taihang Mt.**

LI Fadong, SONG Xianfang, TANG Changyuan, LIU Changmin, ZHANG Wanjun, SAKURA Yasuo

**Operating rules optimization for multipurpose water-supply reservoir**

Yunqing Wu, Zhengjie Yin

**A comprehensive benefit evaluation for Xiangjiang river basin treatment**

Yunqing Wu

**Integrated Statistical Prediction of Monthly Runoff for Reservoir Inflows**

Zhongmin LIANG, Rong DAI, Chengtao ZHU

**Socioeconomic Developing Modes and Water Demand Prediction in Pearl River Delta**

ZHANG Zhen-lin, CHEN Xiao-hong

**Application of a New Flood Stochastic Simulation Model Developed by a Russian Hydrologist in the Basin of Qiantang River**

CHEN Yuan-fang, CHEN Guo-xin, WANG Wen-peng, LI Shu-jian, CHEN Ao-mi

**Long-Term Prediction for the Annual Highest Tide Stage at Huangpu Park in Shanghai**

CHEN Yuan-fang, CHEN Qi-xin, GE Zhao-xia, GU Sheng-hua, WANG Qing-rong, LI Shu-jian

**Effect of Urbanization on Evapotranspiration in Shenzhen, China**

ZHENG Jing, SHI Pei-Jun

**Analysis of the effect of two dominant vegetation covers on the hydrological course in slope plots in Mountain area in North China**

HU Kun, YU Jingjie, SONG Xianfang, LI Fadong, ZHANG Guangying

**Methodology for Evaluating Community Vulnerability Related to Flood Mitigation Planning**

Yi Ge, Peijun Shi, Jing Liu, Feng Xie, Tao Ye

**Simulation of Groundwater Flow in Fractured Media**

Guoying PAN, Fuping ZHONG, Di GAO

**Application of Hydrologic models in Sanchuanhe River Basin of the Loess Plateau**

Guoqing Wang

**The Application of AFOSM Method on Reliability Analysis in evaluation of the Groundwater Allowable Withdrawal**

Liu Pei-gui, Shu Long-cang, Basil Iro Ongor

**Early Warning and Prediction of Flood Abnormalities for Improved Public Safety using A Modified Adaptive Neuro-Fuzzy Inference System**

Muhammad Aqil, Ichiro Kita, Akira Yano, Soichi Nishiyama

**Determining quick groundwater artificial recharge method and recharge zones based on numerical model and optimization method (Jining, China)**

LIU Bo, SHU Long-cang, SUN Qing-yi

**Urban Planning and Springs Conservation in Jinan City, China**

Xing Liting, Kang Fengxin, Ma zhenmin

**Study on the Sensitivity of Groundwater Environment under the Influence of Human Activity**

MA Zhen-min, Wang Wei-ping, Xing Li-ting

**Study and Application of Two-Dimensional Layered Flow Model in Wind-Driven Current Modeling of Reservoir**

Wang Haixia, Huang ping, Zhang Mingliang

**GRID BASED RAINFALL - RUNOFF MODELING USING REMOTE SENSING AND GIS**

S. SARAVANAN, B.SAKTHIVEL

**Augmenting groundwater recharge from traditional water harvesting practices in semi-arid regions: Case study from Alwar, Rajasthan, India**

Shrinivas Badiger

**The Characteristic of *Panicum repens* on Water and Soil Conservation and Its Application on**

**Water Fluctuation Belt at the Reservoirs in Southern China**

FANG Hua, LIN Jian-ping, MO Jiang-ming

**A multi-objectives and semi-structural consolidation assessment method**

Li Qingguo, Chen shouyu

**The New Lerma Chapala Basin Surface Water Agreement: an step forward to the Integrated Water Resources Management of Mexico**

Felipe I. Arreguin, Mario López-Pérez, Manuel Rafael Rosales-González

**THE MEXICAN WATER MANAGEMENT MODERNIZATION PROGRAM: EIGHT YEAR EVALUATION AND PERSPECTIVES**

Mario López-Pérez, Felipe I. Arreguin

**Relationships between three dispersion measures used in Flood Frequency Analysis**

I. MARKIEWICZ, W. G. STRUPCZEWSKI, K. KOCHANEK, V. P. SINHG

**Three Gorges Reservoir's Flood Season Staged Based On Fractal Theory**

DONG Qian-jin, Wang Xian-jia

**Application of continuous ant colony optimization algorithm to parameter calibration of hydrology model**

Jiang Hai, Huang Jie-sheng

**The spatial and temporal variability of soil moisture on grasslands on the Loess Plateau of China**

PAN Chengzhong, SHANGGUAN Zhouping

**Methods for System Programming of South-to-North Water Transfer Project in China**

SHAO Dongguo, WU Yuting

**Flood Prevention Paradigm for a Sustainable Society**

Leow Meng Chew

**Flood risk in Asia – observations and predictions**

Professor Zbigniew W. Kundzewicz

**Soil moisture dynamic characteristics of Well-irrigation areas in Beijing Plain under comparatively deep groundwater table conditions**

Shi-jun Sun, Yao-yuan Ding

**Study on Evapotranspiration of Typical vegetation Communities in Taihang Mountains, China**

Yang Fan

**Evaluation of country water resources by a distributed global water balance model:**

**A case study in Asia developing countries**

Lebing Gong, Elin Widén, Chong-yu Xu, Sven Halldin

**Estimation of evapotranspiration using Three-Temperatures Model (3T model)**

Guo Yu Qiu

**Using a Linked Tidal Prism and Watershed Modeling System to Support Management of Bacterial Sources for Coastal Embayments in the Chesapeake Bay**

Jian Shen

**Experimental Studies on Soil Moisture and Photosynthesis of Fruit Tree by Using Super Absorbent Polymers**

HAN Yu-guo, YANG Pei-ling, REN Shu-mei, XU Lei, LIU Hong-lu , BI Yong-gang

**Determination the Regional Relations of Floods in West of Mazandaran**

M.O.Hadiani, M.Mohseni Saravi, A.Telvari

**Modelling and Predicting the Unsaturated Hydraulic Transport Properties with a New Characteristic Model**

Y. Wang, S.M. Grove, L.F. Liu

**The Integrated Use of Ground and Surface Water in Coastal Water-Absence Irrigation Region**

Gao Yufang, Zhang Zhanyu

**The Application of MAF Model for Flood Analysis On Upstream Citarum River Basin, West Java, Indonesia**

Joesron Loebis

**Application of Artificial Neural Networks to Modeling Flood Forecast**

Li Ya-jiao, Shen Bing, Li Zhi-lu

**Allocation model of urban Multi-water resources for Multi-user and its application**

Yan Han, Shiguo Xu

**Measuring sustainable development of water resources with Aquatic Ecological Footprint in Guangzhou Based on ARIMA model**

Hu Yonghong

**Neural network groundwater table Prediction model based on Levenberg -Marquardt Algorithm**

Zhao xinyu, Fei liangjun, Fang shuxing

**A Simple Method for Simulation of Flood Submerging Range based on GIS**

Wei Bai, Xiaohui Lei

**Debris flow Investigation and Assessment in Panxi Area based on 3S technique**

ZHANG Bao-lei, ZHOU Wan-cun

**A Simple Regional Evapotranspiration Model by Weather and Field Data**

Wu Xianing Hu Tiesong Wang Xiugui Jiang Yan Yin zhengjie

**Study on Control Model of Optimal Allocation of Regional Water Resources**

Sun Cuiqing

**The Study of time dependent boundary model of unconstant well flow in unconfined aquifer ground water flow due to hydrodynamic lag**

Lu yudong, Li peicheng

**A New Runoff Generation Model of a Basin Based on Physics Mechanism**

LI Xu-guang, WANG Ben-de

**Evaluating the effects of land use changes on catchment hydrology by a modified Xin'anjiang eco-hydrological model**

FEI YUAN, LILIANG REN & ZHONGBO YU

**Research on Flood Water Resources Utilization of River Networks in littoral Area of South China**

Ding Tao, Lou Yue-ping, Ma Xiao-bing

**The establishment of evolvement model of saltwater intrusion based on GIS in Pearl River estuary, South China**

Li-gang FANG, Shui-sen CHEN, Hongli LI, Li-xin Zhang

**Study on Flood Operation Model of Xiaoqing River Basin**

Cuisong Yu, Zhenchun Hao

**The use of Eigenvalues of reservoir bottom sediment particle diameter for determining the hydraulic conductivity and Estimating the leakage loss of the Beitang Reservoir**

Shu Longcang, Li Wei, Basil Iro Ong'or, Wang Maomei, Tao Yufei, Liu Lihong, Zhen Li, Lu Chengpeng

**Analysis of Durative Drought Based upon Accumulated Aridity Index**

Rong Yanshu, Yu Jinhua, Tu Qipu

**Groundwater recharge from precipitation in agricultural field in the piedmont region of the Taihang Mountains**

Yonghui Yang, Xiyang Zhang, Xiaohua Hao

**Study on Flood Prevention and Disaster Reduction Decision Support System in Xiu River, China**

YANG TAO, Liang Zhong-ming, Dong Zeng-chuan, Li Zhi-jia

**Use of Variable Fuzzy Sets Methods for Desertification Evaluation**

Wu Li, Guo Yu, Chen Shouyu, Zhou Huicheng

**Mid- and long term hydrologic forecasting of drainage area based on wavelet neural network and fuzzy optimization model**

Zhou Huicheng , Wu li, Chen Shouyu

**Study on the Application of WPI in Assessment of Water Security of Main Basins in China**

Xiaoni WANG, Xiang ZHANG, Xiongrui YIN

**Theory and Application of Urban Water Ecosystem Carrying Capacity**

Shao Dongguo, Liu wuyi

**The research of improving water resources security by floodwater utilization**

Liu Jianwei, Xu Shiguo

**An AHP-Based Fuzzy Evaluation Approach to Sustainable Resources Management**

HUANG Jian-wen, ZHOU Yi-hong

**Comprehensive Evaluation Method for Groundwater Resources Carrying Capacity**

CHEN Shou-yu, HU Ji-min, Kou Zong-wu, Liu Yong-hong

**Water Heterogeneity Monitoring using Remotely Sensed Imagery in Hunan Province, China**

Dengkui Mo, Lin Hui , Guozhen Zhang

**Change on Water Circulation Mode Affected by Water Resource Development in Shiyang River Basin**

Qian Yunping, Gao Yajun, Jiang Xiuhua

**Review on Numerical Models of the movement of unsaturated soil-water**

Hou Xiandong

**Study on the Model of Irrigation and Water consuming of soil water Reservoir in Point Source infiltration under Film Hole irrigation**

MUHong-wen

**Study on Numerical Simulation of Jet in Coflowing Ambient**

WEI Xiao-hua, LUO Wen-sheng , HUAI Wen-xin

**Non-point Sourced Water Pollution and the Protection—— A Case Study in Guangdong Province**

LIU Zufa, JIANG Tao, CHEN Xiaohong, Yu Haixia, LIN Wenjie

**Countermeasures of Agricultural Non Point Source Pollution in Taihu Lake Basin**

Wang Jianguo, Qian Xin, Qian Yu, Wang Qingeng, Zhou Bin, Gu Liang

**Evaluation of the uncertainties resulted from using six hydrological models in assessing hydrological impact of climate change in the Dongjiang Basin, South China**

Tao Jiang, Yongqin David Chen, Chongyu Xu, Xiaohong Chen, Xi Chen

**Flood Frequencies Analysis Transformed Model for Small Sample**  
DONG Jie, TIAN Wei-jun

**Flood Utilization Integrated Risk Evaluation Model Based On D-S Evidence Theory**  
Qianjin Dong

**The study of Nokandeh dam in Golestan state in flood control using HEC-HMS model**  
M.Nourali, A.Najafinejad

**A new empirical model for monthly reference crop evapotranspiration estimating in zhalong wetland**  
Haiwang, shiguo, Leshi Sun, Yingfei Liu

## **Theme 4**

### *Management of Water environment*

**HYDROLOGY FOR ENVIRONMENTAL WATER ALLOCATION IN RIVER BASINS:  
GLOBAL PERSPECTIVE AND ASIAN CASE STUDIES**  
V. U Smakhtin

**Quantification of Ecological Water**  
Xiaohua Wei

**MODELING OF WATER QUALITY WITH THE AID OF GENERALIZATION OF P.  
TCHEBYSHEFF'S INEQUALITY AND CORRECTED A. KOLMOGOROV'S ESTIMATION**  
Nikolay V Sokolov

**Hydrochemical Analysis and the Main Processes Influencing the Groundwater Chemistry of Mabul Island**  
Ahmad Zaharin ARIS & Mohd Harun ABDULLAH

**Optimal Design of Seasonal Flood Control Level Using Multi-objective Genetic Algorithm**  
Pan Liu, Shenglian Guo

**Identification and Strategy of River Water Quality Development Supporting Clean City Water Supply in Indonesia**  
RATNA HIDAYAT, WATI A PRANOTO

**Approaches Used to Build Environmental Sustainability in Water Resource Management: Setting Targets and Defining Principles**

Mark Bain

**Conflicts and Opportunities in Integrated Water Resources Management: Two case studies**

Daniel P. Loucks

**ARMS (Aquatic Real-time Management System) : A decision support system for aquatic resources integrating data and modelling**

Jose R. Romero, Farhad Fozdar

**GIS-based vulnerability analysis of floods**

HSIANG-TE KUNG, XIANG LI, YONGQIN DAVID CHEN

**NITRIFICATION BEHAVIOR OF HIGH-STRENGTH AMMONIUM UNDER INTEGRATED AND SUBMERGED MEMBRANE BIOREACTOR**

DING YUANHONG, REN HONGQIANG, LING YUN

**Pharmaceutical Wastewater Pollution and its Countermeasures to Take**

DING YUANHONG, REN HONGQIANG

**Environmental Improvement in Reclaimed Land of Coastal Area and Analysis on System of Rainwater Utilization**

Shi-guo XU, Lin-lin LI

**The results of the pilot plant study to remove arsenic from Groundwater**

Md. Hamidur Rahman

**Arsenic Pollution in Groundwater of Bangladesh**

Md. Hamidur Rahman, Hiroaki Ishiga

**Spatial variation of atrazine sorption properties in soils**

Dan-rong ZHANG, Yi-qing GUAN, Xi CHEN

**LAKE PLUIT REVITALIZATION**

Agung Bagiawan

**Social Boundaries, Cultural Factors and the Use of Arsenic Free Safe Water Sources**

Bilkis Begum, Tani Masakazu

**Study Of The Waste Load Dispersion In Songkhla Lake By Simulation Model Method**

Winai Sae Chew

**Assessment of surface water and groundwater using water quality index (WQI) in industrial estate --A case study**

Syeda Azeem Unnisa, A. V. S. Prabhakar Rao

**Particulate organic carbon and stable carbon isotope  $\delta^{13}\text{C}$  of a small mountainous tributary of the Lower Pearl River, China**

Shurong Zhang, Xi Xi Lu

**Risk analysis of wastewater reclamation and reuse**

Zhao Hong, W. L. Wei

**Simulation and evaluation of pollution control strategies for Shenzhen River by coupling a system dynamic model with a water quality model**

Huapeng QIN, Shouli HU, Fangfang JI

**Reconstruction of Cities' Sewage Handling System and Realizing Hydrological Resource Sustainable Development in China**

Lu-qiang Zhang

**New Approach to Modification of Streeter—Phelps Model for Water Quality Research in Three Gorges Reservoir**

Hui Peng, De-fu Liu, Hui-ming Peng

**Index System for Assessment of River Health**

yao Zhu

**Vegetation changes in the lower reaches of Heihe river after its water import**

Jianhua Si, Qi Feng, Xiaoyou Zhang, Yonghong Su, Yanwu Zhang

**The social willing-to-pay for national water ecological protection in normal condition**

Yuhai Lu

**Study on Water Environmental Capacity and Total Pollutant Quantity Control of Bosten Lake**

Jiake LI, Xiaode ZHOU, Chenghong FENG, Yajiao LI

**Water Quality Forecast of Jiaozhou Bay**

Xue-qing ZHANG, Ying-lan SUN

**Application and Research Status of Amphiphytes in Ecological Restoration in the Water Fluctuation Belt Zone**

Qifeng Fu, Subin Lin, Chen Li, Man Wang

**Numerical modeling of heavy metal leaching from landfill Leachate on soil water environment pollution**

Qiang Xue, Xia-ting Feng, Bing Liang

**Characteristics of groundwater resources and water environmental problems in Anhui Province**

Guo-qiang WANG, Can-can SHAN

**The Spatial Distributions of Hydrochemistry of River, Groundwater and Lakes in Nanfei River Catchment, Anhui Province, P.R. China**

Jiazhong Qian, Yintao Lu, Weidong Zhao, Tianqiu Hong, Changyuan Tang

**Future trend analysis of wastewater reclamation and reuse in northwest typical cities with water shortage**

Zhiqiang XU, Tinglin HUANG, Xiaochang WANG

**PROBABILITY STUDIES FOR ASSESSMENT OF DISSOLVED OXYGEN PROFILES IN KRISHNA RIVER**

Sekhar. M Chandra

**A Swarm-intelligence Optimization for Flood Control Operation of Multi-reservoir System**

Chonghao LI, Changming JI, Zhenlin ZHANG

**Water Quality Classification Model: The Bagmati River in Kathmandu Valley, Nepal**

Pradhan, PhD Bandana, Reza Yazdani Mohammad, AZimi Aliakbar

**Investigation of Precipitation Droughts in Isfahan Province**

Mohammad Reza Yazdani, Bahram Saghafian, Mohammad Hossein Mahdian

**Modeling bioremediation of contaminated water with contaminant mass exchange between mobile fluid and stationary porous media**

Itza Mendoza Sanchez

**Effect of agricultural water use in the middle reaches on the eco-environment in the Heihe River Basin and countermeasures**

Jing Chen, Jazila

**Research on the Resistance of Terephthalic Acid in Wastewater from the Polyester Fabric Alkali Weight-Reduction Progress**

Yangjun GAO, Danli XI, Ruifang QIU

**DROUGHT ANALYSIS AND FORECASTING FOR AGRICULTURAL WATER MANAGEMENT IN AWASH RIVER BASIN, ETHIOPIA**

Ch Desalegn, M. S Babel, A. Das Gupta

**Water environment capacity in watershed scale: A case study in the Yong River system**

BAOLIN SU, chengwen wang, Fei Yan, Shentong Cheng

**Sediment Hazard by Typhoon Aere in the Shih-Men Reservoir Watershed**

Su-Chin Chen, Lizhu Hou, Shaoyuan Feng, Huan Zhang, Yueyuan Ding

**Water Quality of Urban Runoff from Different Rain Harvesting Surfaces**

Lizhu Hou, Shaoyuan Feng, Yueyuan Ding

**Rainfall-runoff relationship of porous pavement under the condition of artificial rainfall**

Lizhu Hou, Shaoyuan Feng, Yueyuan Ding

**The Problem of Saltwater intrusion in Pearl River Estuary, South China**

Shui-sen Chen, Li-xin Zhang, Qin-huo Liu, Li-gang Fang

**On Information System of Marine Oil Spill Contingency and Response**

Deqi Xiong, Guoxiang Liao, Ming Xiao

**Link the impacts of human activities on water quality and hydrology in river system of Poyang Lake watershed, China**

Xiaoling Chen, Hui Li, Zhongyi Wu, Weijuan Fu, Ying Liu

**Analysis and Research on Water Resources Carrying Capacity in Urban Area ——A Case Study of Shenzhen City**

Junhe CHEN, Chunyuan HUANG, Manish Kumar, AL Ramanathan

**Spatial distribution of Groundwater Chemistry in the Turpan Basin, West China**

Kaisar Aji, Changyuan Tang, Yasuo Sakura, Akihiko Kondoh

**DESIGN OF AN AQUATIC BIOMONITORING PROGRAMME USING THE WATERWAYS OF SHANGHAI AS A CASE STUDY**

Stephan Valley, Valeria Meineri, Massimo Giani, Umberto Puppini

**Ecological environmental evaluation of the Four-rivers Basin flood control project in Hunan Province**

yi XIAO, dong-guo SHAO, yun-qing WU

**A STUDY ON THE DRINKING WATER QUALITY OF BOREHOLE WELLS IN MOUNTAIN AREAS OF KANDY, SRI LANKA.**

U. de S Jayawardena

**The Adsorption and Desorption of Phosphate by Sediments in Natural and Constructed Wetlands in Hong Kong**

Yuk Fo LAI, Kin Che LAM

**The Calculation of river Ecological Flow for the Liao Basin**

Minjian Chen, Huali Feng, Liqun Wang, Gaoxu Wang, Qingyong Chen

**Optimizing the planning for ‘green space’ ecosystem based on ecological principles for small towns in China (Abstract)**

Lingxian Zhang, Qing Liu, Nigel W Hall, Zetian Fu

**Enhancement of a Turbulence Model for More Accurate Predictions of Salinity In a Stratified Estuary**

Wenrui Huang

**Application of QUAL2K model to simulate the water quality in Jiulong River**

Weiping Wang, Huasheng Hong, Yuzhen Zhang, Wenzhi Cao

**Photodegradation of Sulfonylurea Herbicides in Aqueous Solutions under Natural Sunlight**

John Headley, Jing-Long Du, Kerry Peru, Dena W McMartin, Jane Elliot, Allan J Cessna

**Pretreatment of coking wastewater using anaerobic sequencing batch reactor (ASBR)**

Bing LI, Yu-ying LI

**The Effect of Trace Metal Elements on Coking Wastewater Treatment Using ASBR**

Yu-ying LI, Xi-lai ZHENG, Bing LI

**Research on Ecological and Environmental Water Demand and Sustainable Water Management of Region**

Lianqing Xue, Zhenchun Hao

**Rough Analysis on Water Quality and Pollutant factors under Unascertained information**

Yi-feng WU, Lian-qinq XUE, Xi-wu LU

**To control the polluted water. To raise the quality of water. To reduce nasopharyngeal cancer rate of the Pearl River Valley residents.**

hong shou Luo

**Combined treatment of Landfill leachate and Fecal supernatant with Sequencing Batch Reactor system**

Hong-Guo Zhang, Shao-Qi Zhou, Zhi-Quan Yang, Yong Shi

**Optimal Search Method of the Water Pollution Accidental Source**

Ying Liu, Dan Liu, Yong Liao

**Removal of iodide contaminants by calcined layered double hydroxides**

Lv Liang, He Jing, Wei Min, D.G. Evans, Duan Xue

**The interaction of groundwater quality and *Populus euphratica* forest to intermittent water delivery in the lower reaches of Tarim River, Northwest China**

Yongjin Chen

**Research on the Non-point population control based on various land-use types**

Yangling Xu, Huaien Li

**Classification-based Flood Forecasting Model by Artificial Neural Networks**

Xiongrui YIN, Jun XIA, Xiang ZHANG, Xiaoni WANG

**Experimental study on constructed rapid infiltration for slightly polluted water quality improvement in Reservoir**

Yan-xia Zheng, Shao-yuan Feng, Pei-bin Liu, Ze-jun Tang

**Urbanization and green-planting impacts on regional summer precipitation in megacity--Beijing**

Chaolin ZHANG, Shiguang MIAO, Fei CHEN, Qingchun LI, Chongping JI

**Changes of Pollutants in Wastewater Treated with Constructed Wetlands**

Yuling Huang, Defu Liu, Erqing Hui

**Application of EFDC-WASP modelling system in water pollution control: A case study in the Nansha River**

NAN DONG, Baolin Su, Haifeng Jia, Hongtao Ma, Wei Wei, Shengtong Cheng

**Removal of Nitrogen and Phosphorous in a Surface-flow Constructed Wetland**

Xuemin Xiang, Hao Tang, Xiaobai Zhou, Jiti Zhou

**Hydrolysis Acidification-Membrane Bioreactor Process for Ramie Degumming Wastewater**

Jianbo CHEN, Chunmei GAO

**Research on the reserves of Sea Ice as the Potential Resource to Bring Freshwater to Areas around the Bohai Sea, China**

Feng Xie, Wei Gu, Yi Ge, Yinjun Xu

**The Study of Reclamation of Wastewater in IWRM**

Qunfang Fan

**A study on hydrological effect of soil under different subalpine forests on east slope of Gongga Mountain**

Chaolin Liao, Yurong He

**The study of water resource carrying capacity and sustainable utilization of Changchun city**

Wei SU, Jingshuang LIU

**Link the impacts of human activities on water quality and hydrology in river system of Poyang Lake watershed, China**

Xiaoling Chen, Hui Li, Zhongyi Wu, Weijuan Fu, Ying Liu

**Evaluation of Sediment Nutrients in Lake Taihu**

Qihui Chen, Zhenchun Hao, Guangbai Cui

**A new distinguishing model of evolution of urban water environmental system**

Zhen-xun Yu, Kai-qi Wang, Qing-chang Han

**PCBs, PCNs and PBDEs in sediments from the Qingdao coastal sea, the Yellow Sea, China**

Jing Pan, Yong-Liang Yang, Dan-Li Xi

**Flocculation of turbidity and organic matter in source water using chitosan**

Ming Jiang, Jinsheng Lou, Gang Cheng, Qingchang Han, Fang Wang

**Model trial of a rainwater collect system in Hang Zhou**

Ming Jiang, JinSheng Lou, Gang Cheng, ZongXi Zheng, XinBo Jiang

**A research on nanometer TiO<sub>2</sub> photocatalysis degradation of organic phosphorus pesticide in water**

Gang Cheng, YingYun Liu, Ming Jiang, Wen Chen, Hui Pang Zhao

**A design for monitoring the Quality and Quantity of Subsurface Drain Flow at a farming demonstration plot in HangZhou**

Gang Cheng, YingYun Liu, Ming Jiang, ZongXi Zheng

**Assessment of HuaiHe river water quality in BengBu city**

DaoMing Dai, ShanLin Yang

**The soil surface evaporation capacity is studied by the experiment in the oasis district**

wangcheng Li, shaoyuan Feng, wei Wang, shaojun Cheng

**The efficient way to solve the shortage of water resources ——The recycle of post treatment sewage**

Jun Liu, Xuehua Zhang

**Construction Theories and Application of Ecotype Riverbank**

Rui-hua SHI, Shi-guo XU

**Validity Study on Treatment of Pharmacy Wastewater with Membrane Bioreactor (MBR) Process**

Juntao Chen, Haibo Li, Xiangrui Qu

**Research on contamination flux of Qiantang River based on ADCP measuring**

Haixia YU, Liqiang XU

**Effects of Land use on nitrogen export in Xitiaoqi typical sub-watersheds**

Zhao-fu LI, Gui-shan YANG, Heng-peng LI

**Content and variation of rare earth elements in the suspended sediments of the Zengjiang River, southern China**

Zhen Tao, Quanzhou Gao, Guanrong Yao, Meiqi Xie, Kunyan Cui

**A study of water cycle affected by water and soil conservation projects in Loess Plateau using environmental isotopes and hydrochemistry**

Xin Liu, Xianfang Song, Jun Xia, Xuecheng Zhang, Jingjie Yu, Chang-ying SHI, Zhan-bin LI, Fa-sheng ZHU, Chang-ying SHI, Zhan-bin LI, Fa-sheng ZHU

**Experimental studies on the effects of circle rate on transfer and distribution characters of soil moisture and nitrate nitrogen of intermittent infiltration under surge flow irrigation**

Hui Jia, Liangjun Fei, Hongwei Zhang

**Sources and variability of nitrate leaching under different land uses in an agricultural catchment in southeast China**

Jiping Wang, Wenzhi Cao, Yishan Huang

**The gaseous loss flux of the nitrogen through the denitrification and ammonia volatilization from the soil in the Jiulong river watershed**

Yuyu Xu, Wenzhi Cao, Nengwang Chen, Jiping Wang, Dapeng Li

**Net nitrogen mineralization in the soil of Wuchuan catchment in relation to temperature, moisture and land use**

Da-peng Li, Wen-zhi Cao, Neng-wang Chen, Yu-yu Xu, Ji-ping Wang

**Accordant Relationship of the Small Hydropower Development with Water Environment Protection in Luoding City**

Jie-you Li, Nai-zhong Chen, Yun-feng Wang, Ming Dong

**The Bio-Effect of the dissolved organic phosphorus in seawater**

Jian-qiu Chen, Duo Wang, Chun-xia Zhao

**Development and Research on Abrupt Water Pollution accident Emergency Response System**

Xue-jun CHENG, Bei-qing CHEN, De-bao TAN, Zhi-zhong ZHANG

**Characterization of Rainwater Harvesting from Rooftop in Urban Area, Xi'an, China**

Zhirong Wang, Sun Changlei Sun, Mingan Shao

**Wastewater recycling in Jiangnan Salt & Chemical Complex**

Li-ju Zhou, Jia-man Feng, Yi Yu, You-cai Zhao

**Water Quality Assessment, from 2002 to 2004, in Dongting Lake, China**

Ruili SHEN, Zhengyu BAO, Shuxun XIE, Shengying QIAO, Min ZHOU

**Karst Multiple Media Environment's Soil and Water Pollution Prevention and Environmental Security**

Chunqing Guo, Jun Yang

**REGION-WIDE ASSESSMENTS OF WATER NEEDS AND AVAILABILITY: EXPERIENCE FROM ILLINOIS**

Benedykt Dziegielelewski, Xiaoying Yang

**Characteristics and Pollutant Loadings of Precipitation Runoff in Zhuhai Urban Areas**

MU NING ZHUO, DING QIANG LI, ZHI FENG WU

**Implementing a Strategic Environmental Assessment on the Water Resources Development Plan of China's Yellow River Basin**

Fanghua Hao, Hongguang Cheng, Wei Ouyang, Xiyan Ren

**Theme5**

*Sustainable water resources management*

**SUSTAINABLE DEVELOPMENT THROUGH GROUNDWATER MANAGEMENT: A CASE STUDY ON THE BARIND TRACT**

I. M. FAISAL, S. PARVEEN, M. R. KABIR

**How many depressions in Changjiang River Basin and how important in attenuating floods and maintaining water resources**

Huaxia Yao, Jun Xia, Xiaohong Chen

**Risk management for the improved operation of the Three Gorges Dam using seasonal streamflow prediction**

Kaiqin Xu, Casey Brown, Hyun-Han Kwon, Abedalrazq Khalil, Upmanu Lall, Masataka Watanabe

**IMPACT OF TSUNAMI ON COASTAL PLANNING AND MANAGEMENT**

Prof. Santosh Ghosh

**REGIONAL WATER RESOURCE PLAN: The Environment Option**

Prof. Santosh Ghosh

**Perpetual water table drop and rapidly expanding urbanization in Dhaka city, Bangladesh:**

**potential threats for future groundwater management**

M. Shamsudduha, M.A. Hoque

**Water Right for Pollution Abatement in Developing Countries: lessons; challenges; Opportunities and Options**

M.N. Rashed

**Removal of toxic and noxious compounds from water and wastewater by catalysed photodegradation and electrochemical degradation**

M.N.Rashed

**Biomarkers As Indicator For Water Pollution With Metals In Rivers, Seas And Oceans**

M.N. RASHED, Campanella Luigi, G.Visco, M. Battilotti , Cecilia Costanza, M.Castrucci

**Water Resources and Sustainable Development: Factors and Constraints for Improving Human Well-being in Water-stressed Regions**

Nelson Lourenço, Carlos Russo Machado

**Impacts on both global warming and human activities in the Yellow River basin**

Yoshihiro Fukushima, Xei Yao Ma, Yoshinobu Sato, Hongxing Zheng, Tsugihiko Watanabe, Masayuki Matsuoka, Tadahiro Hayasaka Jianyao Chen, Makoto Taniguchi, Tetsuo Yanagi, Changming Liu

**Price Elasticity of Agricultural Water Demand in China**

yuansheng Pei, Fangling, Luolin

**Evaluating and Application of Fuzzy pattern Recognition for water Resource Sustainable Using System**

Chen Shouyu, Ji Honglan

**Rainwater Utilization in Urban Area**

Zhang Jing, Wang Ben-de

**Study on Water Resources Management of the Yellow River Watershed Based on Compensative Regulation Theory**

Han Liu, Qiang Huang, Jianxia Chang

**Application of Irrigation Theory in Water Quantity allotment in Yellow River Lower Reach**

Liu Tian

**Study on Reasonable Allocation of Multi-water resources for Multi-user in Dalian city**

Yan Han, Shiguo Xu

**Study of the hierarchical strategies and management for ecological water demand in arid inland river basins in northwest China**

Li Zongli, Feng Qi, Shen Qinglin

**A macroscopically management strategy: a study on industrial structure of water-saving society**

NI Hong-zhen, WANG Hao, WANG Dang-Xian, ZHANG Qing-hua

**Joint Optimal Operation of Municipal Water Supply**

Chang Jian-xia, Huang Qiang

**A Study of Inter-plant Economical Operation of a cascade Hydropower System in electricity Market**

Li Jiqing, Zhang Yushan, Ji Changming, Wang Liping

**Primary analysis on Integrated Yellow River Water Regulation in Recent Years**

Xue Jianguo

**Healthy life of river network system and integrated management of water resource in the Pearl River delta**

Wei HE, Chunchu LI

**A Study on Short-term Optimization Operation of Hydroelectric Station Group of Huangbo River**

Gao Shichun, Wan Biao, Teng Yan

**Integrated Ranking of Inter-basin Water Transfers from Large Karun Basin in Iran (by Fuzzy Decision Making)**

M. Zarghaami

**Need of ecological balance for Sustainable water resources development in south Asia**

Jit Narayan Nayak

**System Observation-Control Analysis on Water Resources Planning and Management**

Xun-gui LI, Xia WEI, Qiang HUANG

**CALCULATION of urban water supply available: THE CASE OF wUHAN CITY, CHINA**

Xiang Fu, Ya-Dong Mei, Tao Tao

**WATERSHED MANAGEMENT AS HYDROLOGICAL PARADIGM, FOOD SECURITY AND POVERTY REDUCTION IN SOUTH ASIA**

R. B. SINGH

**The Demand-side Management of Water following the operating of the South-North Transfer Project in China**

Xu Jianxin, Jia Ping, Martin Parkes

**A modeling blueprint for assessment of satellite-based flood forecasting in international river basins**

Nitin Katiyar, Faisal Hossain

**Sustainable Water Management for Agriculture: Examples from India and Nepal**

B. Upadhyay, K. Bhattarai

**Analysis of Water Resource Carrying Capacity in the Bohai Rim Region Using Fuzzy Synthetic Evaluation Model**

ZHANG Guoming, XU Yingjun, SHI Peijun, GU Wei

**Himalayan water use and a thought for future course of action**

Som Nath Poudel

**Comprehensive Assessment System of Irrigation Infrastructure Asset**

Zhao Wei

**Using Bargaining Model to Optimize Water Resources Allocation**

Zhao Wei

**Water price Forecasting Method based on marginal-cost Theory**

LI Cui-mei, TAO Tao, LIU Sui-qing

**Study on Conjunctive Surface Water and Groundwater Management in Tanghe Irrigation Area**

Dong Yuyun, Fei Liangjun, Wang Wenyuan

**Laboratory Study on Characteristics of Point Source Fertilizer Solution Infiltration under Sufficient Film Hole Irrigation**

FEI Liang-jun, DONG Yu-yun, Mu Hong-wen

**Discussion of sustainable utilization of water resources on middle part of Jilin province**

WANG Lei, ZHANG Guang-xin

**Water Resource Management and Storm Runoff Simulation for a Coastal Forest Catchment in Japan**

Yi WANG, Keiji TAKASE, Bin HE

**From Flood Control to Sustainable Development: Fifty Years of Water Resources Planning in Bangladesh**

Shahriar M. Wahid, Mukand S. Babel, Ashim D. Gupta, Roberto S. Clemente

**Small Island's Water Supply in The East Nusa Tenggara Province, Indonesia**

Marfini Barmawi, Trenggono, Adang S.

**Irrigation and Flood Control Strategies in southern Indian state**

S.Thomas, Shadananan Nair, Joseph S. Paimpillil

**Impact of urbanization on local groundwater quality and water supply in the Pearl River Delta**

Lu Yintao, Tang Changyuan, Chen Jianyao, Sakura Yasuo

**How to Realize Food-Water Security in China?**

LI Hao, XIA Jun

**Water Integration: Bangladesh Perspective**

Amir Hossain Chowdhury

**Managing water resources in developing countries in South and South-East Asia**

K.S.MURTY

**CHALLENGES ASSOCIATED WITH WATER RESOURCES MANAGEMENT OF PENINSULAR INDIA IN CHANGING ENVIRONMENTS**

K. SHADANANAN NAIR

**Water Resources and Sustainable Development: Factors and Constraints for Improving Human Well-being in Water-stressed Regions**

Nelson Lourenço

**Planning and Research of Haihe Drainage Basin of Jinan City Shandong Province**

Shi zitang, Zhang jie, Wu zebin

**Trans-boundary environmental issues of Asia international rivers: an example of the Mekong River**

X.X. Lu

**Historical Perspective on Salween Dams: Hydrological Science, Sustainable Development and Water Governance in China, Myanmar and Thailand**

Manoch Prompanyo

**Climate trend and agricultural water deficit in North China Plain**

Enli Wang, Qiang Yu, Dingrong Wu

**Interactions between deep drainage and cropping systems in North China Plain as influenced by climate variations**

Qiang Yu, Enli Wang

**Discussion on China's water resources management and its law and regulation system base on water right theory**

Li Shaohua, Liu Bin

**THE ANALYSIS AND RESEARCH ON THE WATER PRICE MODE OF WATER TRANSFER PROJECT**

LI Yuncheng, LIU Junguo

**Using “blue-green water” concept to optimize water resources management in China**

LIU Changming, LI Yuncheng

**Water Woes in South East Asian Riparian Countries; A Conservationist’s Appraisal**

Dr Dipayan Dey, Amrita Chatterjee

**The Problems and Countermeasures on the Demand and Supply of Water in Fujian Province**

Xingwei Chen, Daxuan Zheng, Xiaohua Tang

**Population growth, consumption patterns and water quality management : A case study of Nigeria**

EDIANG A.O, EDIANG A.A, GBUYIRO S., MAC-BUBAA.G.S

**RESEARCH AND CAPACITY BUILDING IN Management of water environment IN NIGERIA**

Ediang, O.A, Ediang, A.A, Adelugba, A.T., Akpofure . R, MAC-BUBAA, G.S

**GROUNDWATER VULNERABILITY ASSESMENT AND SUSTAINABLE MANAGEMANT OPTION FOR ARUSHA MUNICIPALITY AQUIFER, TANZANIA**

Basil T.I. Ong’or, Shu Long-cang

**Research on Water Resources Carrying Capacity and Sustainable Development of Small Towns**

LI Chong-ming

**STUDY ON URBAN WATER RESOURCES CARRYING CAPACITY -A CASE IN THE SUBURB OF BEIJING**

ZHANG YONG-YONG, XIA JUN, WANG ZHONG-GEN, ZUO QI-TING

**A multi-objective optimization method for river basin water resources allocation coupling reservoir regulation model**

Yangbo Chen, Huijun Xu, Biqu Zeng

**Ecological Problems and Countermeasures in Pearl River Water System**

CUI SHUBIN, WANG XIANFANG, DENG JIAQUAN

**Water Resources and Hydropower in Bhutan**

Chhimi Dorji

**The experience of regional water management in Dalian**

Jing Du, Fenglin Yang, Hanmin Zhang

**Climatic Trends of Different Intensity Heavy Precipitation Events Concentration in China**

XIE Zhiqing, DU Yin, JIANG Aijun, Ding Yuguo

**Integrated Management for Drinking Water Security in Karnataka, South India: An Overview**

H.K. RAMARAJU

**Improving regional cooperation and public participation for conflict prevention and resolution in international river courses: the Senegal River case**

FALL OUSMANE, HORI NOBUYUKI, DIAW A. TAHIROU, KANE ALIOUNE

**The study of flood recycling in Guangdong**

CHEN ZHI JING

**Water Management Techniques for Mitigation of Drought in Pakistan**

Salim Uddin, Seema Naz Siddique

**Integrated planning to improve the ecological status of surface waters under consideration of socio-economic frame conditions**

Andreas H. Schumann

**On Virtual Water Trade Exported from Guangdong Province to Hong Kong**

Ya WANG, Jianyao CHEN

**Estimation of virtual water trade volume by input-output analysis - a case study of Zhangye in Heihe Basin**

Wai Cheung Ip, Heung Wong, Jun Xia

**THE WILLINGNESS TO PAY FOR INCREASED WATER SUPPLY RELIABILITY IN JAPAN**

Furen Jiang, Hirokazu Tatano, Yasuhisa Kuzuha, Yoko Matsuda

**Theories and Practice of Ecotype Slope Protection Works in Fudu River**

RUIHUA SHI, SHIGUO XU

**Research of Ecological Harness Mode for Urban Seasonal River**

RUIHUA SHI, SHIGUO XU

**Joint German-Chinese project towards the development of a water allocation decision support system for Beijing**

Thomas Rauschenbach, Zhang Tong

**Strategy of integrate management of Water Resources for transboundary river basin of Central Asia**

Inom Normatov

**Research and evaluation on arithmetic of water saving of irrigation measures in Hebei Province**

Wei Chen

**Protect and utilize water resources to guarantee water supply security in Dongguan City**

Jin Tao

**Indigenous Knowledge and Technology, Integrated Water Resource Management and Sustainable Development**

Durgadas Mukhopadhyay

**Indicators system and method for rainwater resources sustainable utilization in small catchment on the Loess Plateau of China**

Xining Zhao, Hao Feng, Pute Wu

**THE PERSPECTIVE OF WATER DEMAND IN CHINA**

ZHANG HA ILUN

**Giulan Water Source (potential, Limitations and its Problems)**

Parviz Rezaei

**Water Resources Management in Karkheh Basin-Iran**

AMIR HAMZEH HAGHIABI, MOHAMMAD REZA AHMADIPOUR

**Towards Sustainable River Basin Governance in the Dongjiang**

Yok-shiu F. Lee

**Preliminary Study on Water Demand and Economic Development in China in the Past 20 Years**

YUAN Baozhao, LU Guihua, LI Yuanyuan, LI Jianqiang

**Study on Countermeasures of Maintaining Sustainable Water Resource Utilization in Semi-arid and Arid Areas**

Yan Ailing, Huang Qiang

**The choosing and change of water conservancy**

—Exploitation, manage and distribute in yangwu river-basin since late-Qing and democracy nation period

Zhang Junfeng

**The Bargaining and Arbitration Model of the Allocation of the Initial Water Rights in the Drainage Area**

LI Xiangjiao, WANG Xianjia

**Water resource sustainable utilization of Longgang, Shenzhen**

Liu Zengmei

**Research on flood utilization in Guangdong Province**

Zhijing Chen

**Exploitation and utilization of sea ice as freshwater resources in the Bohai Rim**

Yingjun XU, Wei GU, Ning LI, Peijun SHI, Si HA, Weijia CUI

**Emergy assessment of water resources value of China's main rivers**

CHEN Dan, CHEN Jing, LUO Zhao-hui, CHU Lin-lin

**Potentiality Analysis of City Rainwater Utilization and its Countermeasures**

HUANG Xian-feng, SHAO Dong-guo

**Research and discussion in utility of rainy and flood resource in plain river net area**

Boqin Fan

**The Study of the Water Resources Allocation Fairly in different sectors**

Zhang Ze-zhong, Xu Jian-xin, Wang Hai-chao, Liu-fa, Qi-Qingqing

**The Impact of Sticky Gross Water Supply to The Adjustment of Industrial Structure in Ningxia**

Huang Duo, Zhang Daohong, Zhao Xinyu, WuSheng

**The Proportion of Water Usable Distribution for Sustainable Development in Haihe River Basins, China**

Yonghua Zhu, Liliang Ren, Haishen Lv

**The Groundwater Resources Research in Beijing Area and the Strategy of Sustaining Development**

Zhao-xiangdong

**The Demonstration of Optimization for Water Resource Developing and Utilizing-----Taking Urban Agglomerations in Guanzhong as an Example**

Wu yanxia

**The Establishment and Application of Model of Water Requirement Prediction for agglomerations**

Wu yanxia, Zhang daohong

**The Sustainable Use Model Research of Regional Land Resources and Water Resources  
—a Case study in Luancheng County of Hebei Province**

Tian Bing, Jia Jin-sheng Wang Yu-yi

**Integrated regional water resources planning and its application**

Wei wei, baolin su, haifeng jia, Siyu zeng, Yan Xie, shengtong cheng

**Sustainable development and management of water resources in Songnen Plain, Northeast China**

Zhang Guangxin, Deng Wei, Wang Zhichun, Yang Jianfeng, Riasat Ali, Ramsis B. Salama

**The Study of Water Resource Sustainable Utilization in the Middle Route of South-to-North Water Transfer Project for China**

Liu BingJun, Shao Dongguo, Yang Shumin

**Studies on a model of protection and integrated water resources management of Tai Lake**

ZHANG Xing-qi, HUANG Xian-jin

**Discussion on the watershed management in Regional Planning**

Liu Jing

**Study on Coordinative Management System of Water Resources**

Ji Xiaoyan, Cui Guangbai

**Discussions on SC-CO<sub>2</sub> Dyeing Technology and Protection of Water Resource in the Taihu Basin**

ZHOU Luo-qing, HAN Xiao

**Sustainable Relationship of Economic Development with Water Resources in Luoding City**

Chen Nai-zhong, Wang Yun-feng

**Policies for water supply security in Guangzhou, China**

Jianzhong Cheng, Jianyao Chen

**Technological system of rainwater utilization in lithoid mountain area in North China**

Wanjun Zhang, Yanmin Zhao, Jiansheng Cao, Xuezan Feng

**Water Right Trade and Water Market in China**

Yingji Xuan, Yueping Xu

**The Current Situation of Chinese Water Resource and Security Countermeasure**

Yan-guo Fan, Zhen-qi Hu

**Study on Tradable Water Right Management Model in China**

CHEN Xu-Sheng, LI Lei

**Water Availability and Saving, Desertification Control and Poverty Reduction in Minqin County, Shiyang River basin**

Jinzhu Ma

**Flood resources utilization based on flood control forecast operation**

GAI-HONG ZHANG, HUI-CHENG ZHOU, BEN-DE WANG, JING-XUAN YUAN

**Game model of water resources optimal allocation**

Wang Yu-Peng, Kong Ker, Xie Jian-Cang, Thian Yew-Gan

**The Water Environment System Coordinating Degree Model and its Application on Xiao-Hua Region in the Yellow River**

WANG XIAO-HUI, XIE JIAN-CANG, CHEN LIN-TAO

**Study of double auction Bayesian model and design of mechanism in water rights market**

LI Chang-jie, WANG Xian-jia, FAN Wen-tao

**Research on Economical Utilization of Water in Foshan Based on the Sustainable Development**

LIU Xia, LIU Zufa, JIANG Tao, CHEN Xiaohong, LI Yan

**Separation of Crop Transpiration and Soil Evaporation in a Cornfield in the Yellow River Basin Using the Dual Crop Coefficient Approach**

**DAISUKE YASUTAKE, TETSUO KOBAYASHI, DAICHI IKEGAMI**

RISA IWANAGA, MASAHARU KITANO

**Study on Risk Evasion Model for Hydropower Entering In Power Net Work**

Li Anqiang, Wang Liping, Ji Changming

**Water in a Changing Climate**

Prof. Jörg Imberger

**Study on the Sustainable-development-oriented Optimal Allocation of Water Resources in Foshan City**

Dedi Liu, Xiaohong Chen, Bingjun Liu

**The Research on Transferable Water Resources of South-to-North Water Project**

Bingjun Liu, Dongguo Shao

**Dhaka Water & Waste Management: Risk & Responsibilities**

Ivan Sarwar, Abdullah-Al-Masud, Bu Ke

**A System Frame for Water Resources Sustainable Management**

Zou Jin, He ShiHua

**IMPACT OF TSUNAMI ON COASTAL PLANNING AND MANAGEMENT**

Prof. Santosh Ghosh

**REGIONAL WATER RESOURCE PLAN: The Environment Option**

Prof. Santosh Ghosh

**A Decomposed Approach to Optimal Planning and Operation of Water Supply Networks**

Dr.-Ing. Buren Scharaw, Prof. Dr.-Ing. Pu Li

**Water-supply reservoir operating rules extraction based on artificial immune algorithm**

Xiaolin Wang, Zhengjie Yin, Tiesong Hu

**Estimation of Water Resources Distribution in River Basin through GCM data**

Takashi KOBAYASHI, Toshiharu KOJIRI, Toru NOZAWA

**Ultrasonic Reactor Systems for the Low-volume Purification of Groundwater and Surface Water**

Prof. Michael R. Hoffmann

**The effects analysis of climate change on surface humidity index in zhalong wetland**

Haiwang, shiguo1, Leshi Sun, Yingfei Liu

**The effects analysis of climate change on reed swamp evapotranspiration in Zhalong wetland**

Haiwang, shiguo, Leshi Sun, Yingfei Liu

**The Research of Floodwater Utilization Scheme in Baicheng City 2005**

Shiguo Xu, Jianwei Liu- Yingfei Liu

**Analysis of New Water Supply System for Wetlands-----Moon-Lake Wetland as an Example**

Jianwei Liu, Shiguo Xu, Yingfei Liu

**Risk Analysis and Discuss of Floodwater Utilization**

Jianwei Liu, Shiguo Xu