Table of Contents

An Analysis of Regional Economy and Resourcesand Environment Coordinated Development Based on PSR Model----A Case Study of Zhongyuan Urban Agglomerations 1

Pengyan Zhang, Jianjian He, Wang Huili, Zhimin Zhou

Realization of Solar Sensing Device

11

Hyeok Jae Woo, Sung Ho Kim, Kyoo Jae Shin

Cooperative Distribution Algorithm of Green Supply Chain Considering the Risk Aversion of Manufacturers 21

Han Fang, Yang Yongqiang

Integration for Heterogeneous Manufacturing Information Systems Based on Semantic Entity 31

Song Yu-chuan, Xiong Jun, Li Xian-wang, Chen Xue-hai

Incremental Auto Regressive Prediction Models with External Variables of Greenhouse Air Temperature for Control Purposes 45

Zhenfeng Xu, Junjie Chen, Jingxia Zhang, Yuan Liu, Qiaowei Zhang

Research on Model of Vehicle Logistics Transportation Plan59

Jiang Wei, Zhou Baoping, Kang Shunguang, Liu Chan

Evacuative Path Design due to the Optimal Cost-Function Arithmetic at Compartment Fire 69

S.C Moon, S.G Lee, I.S Weon

The Community Discovery Algorithm Based on Label Cohesion 83

Gui Qiong, Zhu Dejun, Cheng Xiaohui

Segmentation of the Synthetic Aperture Radar Image Using the Watershed Transformation and Region Merging Technique 93

Chuanxian Jiang, Zhiping Li, Xiaohui Chen, Zejun Zhang, Yeqing Yi

Device-Free Multiple People Daily Activity Recognition Using the Channel State Information Of Wi-Fi Signals 103

Mohammed Abdulaziz Aide Al-qaness, Fangmin Li

Hadoop-based Probabilistic Range Queries of Moving Objects on Road Network 113

Yaqing Shi, Jun Feng, Zhengping Ren, Wenjuan Xie

Expanding Ring Search Energy Analysis and Optimization for Wireless Sensor Networks 123

Xiuxiu Wen, Huiqiang Wang, Guangsheng Feng, Hongwu Lv, Junyu Lin, Qiang Zhu

Research on the Urban Landscape Design based on Digital Multimedia Technology and Virtual Simulation 133

Jingjing Jiao, Hongxiu Liu and Nuo Zhang

Research on the Correlation between Urban Scale and Congestion Level and Computer Simulation Based on CA Model 145

Sun Hai, Zhao Lin, Gao Huiwang

Design and Implementation Technique of the Specific Embedded System for an Instantaneous Wireless Image Observation 155

Yong Up Lee

Analysis on Slope Stability of Open Pit Coal Mine Based on Grey Support Vector Machine 169

Liu Bo, Zhang Peng, Zhang Jianwei

2C-CTP: A Centralized Clustering Data Collection Protocol based on CTP 179

Lingyun Xu, Tao Li, Baowei Wang, Xingming Sun, Xingang You, Yanhua Zhu

Speech Recognition Algorithm in Complex Noisy Environments Based on Multi-Space Compensation 197

Yuanchang Zhong, Wenjin Xie, Zunzhao Wang

Design of a Flyback Switching Power for Smart Meter 207

Fan jian-ying, Zhang Yu-ling, Shi Dong-qing

A Smart Building Automation System

Rohit Chasta, Rajesh Singh, Anita Gehlot, Raj Gaurav Mishra, Sushabhan Choudhury

The System Design of Children's Medical Treatment and Health Care based on Mobile Internet 225

Feng Liu, Gang Zeng, Gang Hu

217

Research on the Informationization Construction Based on E-Commerce in Rural Areas 235

Ma Jinhai

259

Design and Simulation Research on Energy Consumption of Electric Vehicle Charging Stations 247

Qiang Gao, Jinsong Liu, Guangming Zhang, Qi Liu

The Research of Slots Allocation on Bridge Mode

Shi Li-na, Wan Li-li, Jiang Bing

Research on the Innovative Design of Multi-functional Shoe Cabinet 267

Wu Nai-qun, Shi Yao-jun, Dai-ye

A Platform of Service Registry to Discover Service Resources in Ubiquitous Network 275

Ben Yan, Hua-Ping Yao, Masahide Nakamura, Shinsuke Matsumoto, Hideharu Seto

Prediction Methods and Precise Electricity Energy Prediction of School Facility 287

Hanguk Ryu and Sebo Kim

Fiscal Decentralization and High-Polluting Industry Development: City-Level Evidence from Chinese Panel Data 297

Lanrui Wang, Ping Lei

Research on Optimal Design for Water Supply and Energy Conservation in High-rise Office Buildings 309

Hou Gang, Li Bing

Optimization of Control Block of 3-bit PWM using Adiabatic Dynamic CMOS Logic for OLED Illumination System Based on Internet of Things Service 317

Seung-Il Cho, Sung-Dae Yeo, Seong-Kweon Kim and Michio Yokoyama

PDConnect: Low Cost Wearable Device connecting Patient-Doctor via Cloud for Good Health 329

> Akarsh Goyal, Ishan Khandelwal, Aditya Kumar Mathur, Ronnie D. Caytiles and N.Ch. S.N. Iyengar

Applying a Hybrid Approach Based on Analytic Hierarchy Process and
Artificial Neural Network to Upholstered Furniture Design347

Ming Chen, Jianhua Lyu and Jiabi Chen

Research on the Low Carbon Evolution Mechanism of the Coal Enterprises based on Genetic Algorithm and Game Analysis 361

Jia Xianmin, Lu Caiwu and Wang Xilian

Research on the English Teaching and Autonomous Learning Based on Multimedia Platform and Smart Classroom System 373

Wang Pingxiao

Analysis on Mechanism of Vegetation Slope Protection based on Security Perspective 385

Du Guangqian and Wang Shijie

Data Visualization and Multimedia Application in Value Identification and
Integrity Protection of Traditional Villages based on 3D Simulation395

Zhenran Liang and Ren Shuang