

Table of Contents

Study on the Method of Closed Loop Control for Gas Engine 1

Xiaocheng Ge, Zhongming Xu, Jingbo Li and Bowen Zou

Matlab Guidance Based Smart Gas Leakage Detection and Security System Using Analog to Digital Technique 13

Md. B. Hossain, Saruar J. Shourov, Md. M. Rana and Md. S. Anower

Fisher Linear Discriminant Method for Forest Fire Risk Points on Transmission Line 25

Zhou Jing, Ma Weiqing and Zhang Ye

Design of Chemical Industrial Park Integrated Information Management Platform Based on Cloud Computing and IOT (The Internet of Things) Technologies 35

Qian Hao, Furen Zhang, Zeling Liu and Lele Qin

Uncertainty, Corporate Governance and Investor Protection 47

Xiaowei Tan and Zhongming Ding

Research of Forest Fire Smoke Recognition Method Based on Gray Bit Plane Technology 57

Xiaofang Sun, Liping Sun, Yaqiu Liu and Yinglai Huang

Biomass Pyrolysis Fuel Research of the Technology about Heating Through Heat-carrier 65

Liu Xin, Wang Shuyang, Sunbing Xiao, Xueguo Lei and Cao Youwei

Evaluating Sustainable Urbanization and Coordinated Development A case study of Liaoning in China 73

Qiang Sun

ZigBee Network Tree Routing Algorithm based on Energy Balance 85

Zhipeng Song

Automatic Traffic Accident Detection Based on the Internet of Things and Support Vector Machine 97

GuoJun Liang

Control Algorithm of Static Loading Test for Wind Turbine Blades Based on Fuzzy Theory 107

Zhang Leian, Huang Xuemei and Yuan Guangming

The Research on the Load Prediction for Ice Storage System Based on Rough Set 117

Shi XiaoXia and Wang Dong

Teaching and Practice Innovation of Embedded System Design Course Based on Proteus and Keil-electronic Stopwatch as an Example 127

Li Dan, He Erhu, Zhang Yanrong and Zhang Yu

Performance Analysis of the Home M2M Cooperative Networks 135

Lingwei Xu, Hao Zhang, Tingting Lu and T A Gulliver

Sentiment Orientation Identification under Q&A Community based on Two-level Conditions Random Field Improved by Particle Swarm Optimization Algorithm 145

Wang Caiyin, Cui Lin and Li Hong

Research on the Improved DV-HOP Localization Algorithm in WSN 157

Xu Chun-Xia and Chen Ji-Yu

Application of Android Mobile Platform in Remote Medical Monitoring System **163**

Yao Wang, Minghan Liu and Jingang Li

An Improved DMRS Design Scheme of LTE-Advanced Uplink **175**

Xiaowen Li, Youbo Feng and Dan Wang

Design of Single-Feed Multi-Beam Reflectarray Using Iterative Fourier Techniques **187**

Yan Qu, Chenjiang Guo, Hua Guo and Jun Ding

Development of the Rule-Based Inference Engine for the Advanced Context-Awareness **195**

Jun-Hwan Jang and Sung Hyun Yang

Smart Home Automation System for Elderly, and Handicapped People using XBee **203**

Bilal Ghazal and Khaled Al-Khatib

A Novel Step Counting Algorithm Based on Acceleration and Gravity Sensors of a Smart-Phone **211**

Qingchi Zeng, Biao Zhou, Changqiang Jing, Nammoon Kim and Youngok Kim

A New Query Integrity Verification Method with Cluster-based Data Transformation in Cloud Computing Environment **225**

Miyoung Jang, Min Yoon and Jae-Woo Chang

A Directional Cognitive-Radio-Aware MAC Protocol for Cognitive Radio Sensor Networks **239**

Han Su and Sangman Moh

**Towards an Intelligent Livestock Farm Management using OWL-based
Ontology Model** **251**

*Saraswathi Sivamani, Jangwoo Park, Changsun Shin,
Kyungryong Cho, Dongguk Park, Yongyun Cho*