

## Table of Contents

**Research on the Impact of Tourism E-business on the Theory and Practice Teaching System based on Internet** **1**

*Hui Song and Ling Wu*

**Development of Smart Phone Applications Linked with Fire Alarm Control Panel in Automatic Fire Detection System** **11**

*Ha-Sung Kong, Jong-Seog Yang and Kwang-Sun Kang*

**Building Waste Output Forecasting Model based on Gray Metabolism GM (1,1)** **19**

*Yabo He, Wang Hongtao, Yang Lin and Qin Wei*

**Simulation and Energy Analysis of Thermal Environment of Unassisted Passive Solar House** **27**

*Hou Gang and Li Bing*

**Design and Implementation of In-house Mobile Electronic Cash in Universities** **39**

*Hyun Joo Kim and Soo Jong Lee*

**Research on Interactive Device Ergonomics Designed for Elderly Users in the Human-Computer Interaction** **49**

*Xiaolei Zhou and Wei Shen*

**Improvement of the Crop Growth Rate in Plant Factory by Promoting Air Flow inside the Cultivation** **63**

*Min-Seon Baek, Sook-Youn Kwon and Jae-Hyun Lim*

**A Method of Reference Point Range for Field Navigation of Agricultural Robot** **75**

*Zhang Miao*

**A Distributed Infrared Temperature Monitoring System Based on Embedded Technology and Visualization Technology** **85**

*Yuyin Zhang and Likai Liang*

**A Prediction Approach for Demand Analysis of Energy Consumption Using K-Nearest Neighbor in Residential Buildings** **97**

*Fazli Wahid and DoHyeun Kim*

**The Research on the Coordinated Development Evolution of Technology Innovation in New Energy High-tech Industry** **109**

*Han Bing*

**The Development Analysis of Leisure Agriculture in Xinxiang City, Henan Province Based on GAHP-SWOT** **117**

*Jingping Xian, Cuiyue Dong and Lifang Qiao*

**Voltage Based Energy Efficient Mobile Charge Sensor Design Using LVCMOS** **129**

*Arpit Gupta and Aarushi Sapra*

**A Data-Mining Approach for Wind Turbine Power Generation Performance Monitoring Based on Power Curve** **137**

*Jianlou Lou, Heng Lu, Jia Xu and Zhaoyang Qu*

**Research on the Management Innovation in Green Supply Chain: an Empirical Analysis based on Probit Model** **153**

*Xueling Nie*

**Study on the Autonomous Learning of College English Based on Online Learning Platform** **165**

*Jun Liu*

**Research on the Discrimination of Hatching Eggs Activity Based on Thermal Imaging: A Food Nondestructive Testing Practice** **175**

*Liu Hai-ling, Cai Jian-rong, Sun Li, Yuan Lei-ming and Liu Meng-lei*

**From Cloud to Fog and IoT-Based Real-Time U-Healthcare Monitoring for Smart Homes and Hospitals** **187**

*Chandra Sukanya Nandyala and Haeng-Kon Kim*

**Experimental Study on Synchronous Shifting for AMT without Synchronizer Based on Three-phase Induction Motor** **197**

*Yunxia Li, Zengcai Wang, Weili Peng and Zhou Zheng*

**Study & Analysis of Role of Li-fi in Future** **213**

*Sambhav Gupta, Sarthak Gupta, Shashank Pandey, Saurabh Ranjan, Satyam Goel and Saurabh Bhatia*

**Smart Parking by Mobile Crowdsensing** **219**

*Xiao Chen and Nianzu Liu*

**Design of Smart Home System based on ARM and ZigBee Technology** 235

*Feng Tian, Shimin Wang and Yongtao Yu*

**Threshold Selection Algorithm Based on Skewness and Standard Deviation  
Using Back Propagation Artificial Neural Networks in the 60GHz Wireless  
Communication Systems** 245

*Xiao-Lin Liang, Hao Zhang, Ting-Ting Lu, Xue-rong Cui  
and T. Aaron. Gulliver*