

Contents

| | | |
|----------|--|-----------|
| 1 | Mobile Anchor-Assisted Localization in 3D Wireless Sensor Networks with Hilbert Curve | 1 |
| | Chuanai Zhou, Huanqing Cui, Xiaojing Meng and Rong Hua | |
| 2 | Human Tracking System Based on PIR Sensor Network and Video | 13 |
| | Ji Xiong, Fang-Min Li and Jing-Yuan Zhang | |
| 3 | A Novel Skeleton Extraction Algorithm in Sensor Networks | 27 |
| | DongHui Zhu, Yubao Wang, Jing Xing, Wenping Liu, Hongbo Jiang and Gang Wu | |
| 4 | A Real-Time Information Perceived Vehicle Opportunity Route: RIPVO | 37 |
| | Kelei Li, Xinhua Wang, Mianmian Lv and Zhen Wang | |
| 5 | Enabling Reliable and Efficient Network Reboot in Wireless Sensor Networks. | 47 |
| | Wenbin Wu, Yi Gao, Xuefeng Zhang, Chao Huang and Wei Dong | |
| 6 | An Automated Unit Testing Framework for Wireless Sensor Networks. | 59 |
| | Dongyu Yang, Fan Zhang and Jun Lin | |
| 7 | Performance Evaluation of WSNs-Based Link Quality Estimation Metrics for Industrial Environments | 69 |
| | Guangchao Gao, Heng Zhang and Li Li | |
| 8 | Security Evaluation for Wireless Sensor Networks Based on Attack Test and Fuzzy Comprehensive Judgement | 81 |
| | Xueying Zhang, Xiaotong Zhang, Yue Qi, Liwen He, Zuoxin Xiahou and Chunyuan Li | |

| | | |
|-----------|--|------------|
| 9 | High Accurate Time Synchronization Mechanism for WIA-PA Network | 93 |
| | Yuwei Zhou, Qin Wang and Yadong Wan | |
| 10 | A Reliable Routing Algorithm Based on Link Quality Evaluation for Wireless Sensor Networks | 105 |
| | Yongrui Chen, Weidong Yi, Binghua Wang and Fei Qin | |
| 11 | A Probabilistic Group Reverse k-Nearest-Neighbor Query in Sensor Networks | 121 |
| | Jinghua Zhu, Bin Kan, Yong Liu, Tong Wang, Liqiang Pan and Dan Liu | |
| 12 | A Study on the Wireless Sensor Networks MAC Protocol for Aircraft Health Monitoring. | 131 |
| | Wei Zhou and Bo Jing | |
| 13 | A Multi-channel MAC Protocol with High Throughput for Wireless Sensor Networks. | 145 |
| | Bin Cheng, Linlin Ci, Chengping Tian and Taolin Guo | |
| 14 | A General Framework on Connected Sensor Cover in Homogenous Dense Sensor Networks | 155 |
| | Jing Lv, Hongwei Du and Hejiao Huang | |
| 15 | Partition-Based MAC Protocol for Data Gathering in Wireless Sensor Networks. | 167 |
| | Bin Cheng, Linlin Ci, Chengping Tian and Taolin Guo | |
| 16 | Small World-Based Wireless Sensor Network Power Control Algorithm for Airborne PHM | 177 |
| | Wei Zheng and Di Luo | |
| 17 | Energy Efficient Multicast Routing with Delay Constraint in Bus-Based DTNs. | 187 |
| | Lili Ren, Qingshan Wang, Shasha Fu and Yanping Liu | |
| 18 | Design and Implementation of an Intelligent Monitoring System Based on ZigBee for the Agricultural Greenhouse | 195 |
| | Renfei Wu, Ying Xu, Long Li, Junli Zha and Renfa Li | |
| 19 | Does Such a Large-Scale Wireless Sensor Network Work? | 205 |
| | Yanliang Jin, Lina Xu, Zhishu Bai, Xuqin Zhou, Wei Ma and Muxin Wang | |

| | | |
|-----------|--|------------|
| 20 | A Peer Selection Algorithm Based on Tolerance and Behavior Capacity in P2P Streaming Media System | 215 |
| | Ruichun Tang, Junwei Hou and Shuang Guo | |
| 21 | Research of Deployment Strategy of Barrier Coverage for Limited Speed Mobile Target | 223 |
| | Yunhong Lu, Zhongwen Guo, Qing Liu and Like Qiu | |
| 22 | ZTDMA: A Multi-zones and Multi-objectives Channel Allocation Protocol Based on TOA Real-Time Geolocation System | 233 |
| | Cheng Xu, Jie He, Fei Liu, Mowei Lv and Qin Wang | |
| 23 | MLOC: A Multiple Service Fusion Self-Organizing Geolocation System | 247 |
| | Cheng Xu, Jie He, Fei Liu, Mowei Lv and Qin Wang | |
| 24 | Study on Architecture and Topology of Mobile Underwater Wireless Sensor Networks | 263 |
| | Ming He, Wenhui Liang, Qiuli Chen and Qingbing Zou | |
| 25 | The Design and Simulation Based on Ultrasonic and CSMA/CD Alike Tracking Method for Wireless Sensor Networks | 275 |
| | Changliu Niu, Xiwei He and Shouli Zhou | |
| 26 | Security Analysis of WIA-PA Protocol | 287 |
| | Yue Qi, Wenjuan Li, Xinqiang Luo and Qin Wang | |
| 27 | Design and Implementation of IoT Security System Towards Campus Safety | 299 |
| | Weijun Qin, Bo Li, Jiadi Zhang, Shanyan Gao and Yunhua He | |
| 28 | Distributed T-Distribution-Based Intrusion Detection in Wireless Sensor Networks | 313 |
| | Pu Cheng, Minghua Zhu and Xianzhong Liu | |
| 29 | Weighted Localization for Underwater Sensor Networks | 325 |
| | Shaobin Cai, Guangzhi Zhang and Shilong Liu | |
| 30 | The Summarize of Medium Access Control Protocol in RFID . . . | 335 |
| | Zhijie Han, Yin Xu and Ruchuan Wang | |

31 Wireless Sensor Network Data Storage Optimization Strategy . . . 345
Weibei Fan, Zhijie Han and Zhengwei Guo

32 Localization for a Hybrid Ocean Wireless Sensor Networks. . . . 353
Hanjiang Luo, Zhong Yang and Linfeng Huang

33 Graph Coloring-Based Clock Synchronization for Clustering Underwater Sensor Networks 363
Ying Guo

34 Paying the Way of FPV-ROV with a Function of GSM-GPS Reverse Positioning 371
Mengnan Sun and Bing Zheng

35 Underwater Image Feature Matching Based on Inhomogeneous Illumination 379
Congcong Xu and Bing Zheng

36 Application Software Model on Network Convergence Mode of Internet of Things 387
Jianguang Zhu, Shikui Zhai and Huina Xu

Author Index 397