

Table of Contents

A Resource Management Mechanism of WBAN for Wireless USB Support	1
<i>Kyeong Hur, Won-Sung Sohn, Jae-Kyung Kim and YangSun Lee</i>	
Smart Elderly Home Monitoring System with an Android Phone	17
<i>Jer-Vui Lee, Yea-Dat Chuah and Kenny T.H. Chieng</i>	
Task Model and Task Ontology based on Mobile Users' Generic Activities for Task-Oriented Tourist Information Service	33
<i>Heum Park</i>	
Efficient Cluster Organization Method of Zigbee Nodes	45
<i>Sung-Je Woo and Boek-Duk Shin</i>	
Power and Performance Analysis of Smart Devices	57
<i>Min Choi</i>	
An Improved Website Structure Optimizing Algorithm	67
<i>Mingjun Li, Mingxin Zhang, Jinlong Zheng and Ying Lu</i>	
An Indoor Golf Simulator for Continuous Golf Games	75
<i>KeeHyun Park and SeungHyeon Lim</i>	
Filter Size and Color Pattern Investigation for Yamanaka Patterned Color Filter Array	85
<i>Gwanggil Jeon</i>	

Construction of Cognitive Radio Based Emergency Communication System and Application Scenario Analysis **97**

Haitao Wang, Hui Chen, Shicai Zhu and Lihua Song

A Design of VCM (Vessel Communication Manager) Improving Communication Efficiency and Security with ARP (Azimuth based Routing Protocol) and NATF (Network Attack Traceback Facility) for Vessel Networking **105**

Ina Jung, EunHee Jeong and ByungKwan Lee

Smart Home Security System Using Multiple ANFIS **121**

Lee Sang-Hyun, Jeong-Gi Lee and Moon Kyung-Il

Mixed Reality System for Virtual Interior Design **133**

Taewoo Han and Yong-Ho Seo

The Centralized Containment Strategy and Mathematical Modeling Analysis **143**

Liu Yang, Wang Bailing, Yuan Xinling, Bai Xuefeng and Zhu Qiang

Development of the HEMP Propagation Analysis and Optimal Shelter Design, Simulation Tool "KTI HEMP CORD" **155**

Gyung Chan Min, Yeong Kwan Jung and Jeong-Jin Kang

Improve Method on DOA Estimation Accuracy of Signal Subspace Sensitivity Based on Mutual Coupling Matrix **167**

Kwan Hyeong Lee

A Study on the Context Service Model for Livestock Estrus Detection **177**

Hyungi Kim, Seokkyun Jeong, Haengkon Kim and Hyun Yoe

Software Implementation and Comprehensive Performance of Uplink Channel on Mobile 4th Generation Technology **185**

Mayada Faris Ghanim, Mohammad Faiz Liew Abdullah and Aws Zuheer Yonis

Ratiometric GPS Iteration Localization Method Combined with the Angle of Arrival Measurement **197**

Jangwoo Park and Honggeun Kim

The Effect of Switch Triggering Offset and Switch on-time Duration on Harvested Power in Synchronized Switch Harvesting on Inductor **207**

Jangwoo Park, Honggeun Kim, Changsun Shin, Kyungryong Cho, Yongyun Cho and Kisuk Kim

Cross-Layer QoS Architecture with Multipath Routing in Wireless Multimedia Sensor Networks **219**

Si-Yeong Bae, Sung-Keun Lee and Kyoung-Wook Park

A Modified Denoise Approach for UCA DOA Estimation in Low SNR Case **227**

Yuguan Hou, Lingfeng Chen and Yiyang Shen

A k-Nearest Neighbor Search Algorithm for Enhancing Data Privacy in Outsourced Spatial Databases **239**

Miyoung Jang, Min Yoon and Jae-Woo Chang

An Intelligent Bus Status Informing Scheme Exploiting Smartphone Application **249**

Jang won Seo, Dae gyu Hwang, Kyung hee Lee, Ki seong Kim, Inho Jeon, Changqiang Jing and Youngok Kim

A Novel Template Weighted Match Degree Algorithm for Optical Character Recognition **261**

Mo Wenying and Ding Zuchun

Effect of Enhancing Learning through Annotation Similarity and Recommendation System **271**

Jae-Kyung Kim, Won-Sung Sohn, Kyung Hur and YangSun Lee

Research in Estimation of Temperature for Power Battery Based on Back Propagation Neural Network **283**

Haiying Wang, Shuangquan Liu, Tianjun Sun and Gechen Li

Development of Agricultural Cooperatives for Revitalization of the Rural Community – Focused on the Case Study of 'Sunkist' **293**

Jin-Young Kim

A Keyword Filters Method for Spam via Maximum Independent Sets **301**

HaiLong Wang, FanJun Meng, HaiPeng Jia, JinHong Cheng and Jiong Xie

The Implementation of Smart Home System Based on 3G and ZigBee in Wireless Network Systems **311**

*Gwang Jun Kim, Chang Soo Jang, Chan Ho Yoon,
Seung Jin Jang and Jin Woo Lee*

Design of Obstacle Avoidance System for Mobile Robot using Fuzzy Logic Systems **321**

Xi Li and Byung-Jae Choi

Honey Bee Mating Optimization Technique Based Multi-machine Power System Stabilizer Design **329**

Ali Nazari and Amin Safari

Delaying Inter-tier Handover in Hierarchical Networks **345**

Seungjae Shin, Min Choi and Namgi Kim

Diversity of Mobile Distribution Systems **355**

Haeng-Kon Kim

Study on the Application of Ant Colony Algorithm in the Route of Internet of Things **365**

Ying Lu and Wen Hu

Enhanced Synchronizing Packet Coalescing Mechanism for Improving Energy Efficiency in Ethernet Switch **375**

Young-Hyun Kim, Sung-Keun Lee and Jin-Gwang Koh

Design and Implementation of Secure Control Architecture for Unmanned Aerial Vehicles **385**

Hyeok-June Jeong and Young-Guk Ha

Development of an Electronic Ordering and Payment System with Embedded Devices **393**

Se-Jun Park, Tae-Kyu Yang and Yong-Ho Seo

