

International Journal of Information and Electronics Engineering

CONTENTS

Volume 6, Number 2, March 2016

• Computer Architecture and Data Security

- Secure Two Party Privacy Preserving Classification Using Encryption.....67
K. S. Hareesha and M. Sumana

- Cache-Aware Cooperative Task Mapping in Multi-core Real-Time Systems.....72
Endong Wang, Fan Ni, Jicheng Chen, Hongwei Wang, and Yihan Li

- A New Hybrid 16-Bit×16-Bit Multiplier Architecture by $m:2$ and $m:3$ Compressors.....79
Shima Mehrabi, Reza Faghah Mirzaee, Sharareh Zamanzadeh, and Amirhossein Jamalian

- NoSQL: Confidential on Data Security and Data Management by Using a Mobile Application.....84
Hemn B. Abdalla, Jinzhao Lin, Guoquang Li, and S. Mushhad M. Gilani

- Development of an OMT Table Viewer/Editor Using the Matlab/Simulink for HLA-Based Distributed Simulation.....89
Younghun You, Tan Lee, Wooshik Kim, and Sugjoon Yoon

• Electronic and Communication Engineering

- Simple Blocking Oscillator for Waste Battery's Voltage Enhancement.....93
Dewanto Harjunowibowo, Wiwit Widiawati, Anif Jamaluddin, and Furqon Idris

- A Study for the Improvement of Communications Security and Quality on Wireless Alarm Equipment.....97
Masaki Fujikawa

- Fundamental Approach in Defining Optical Crosstalk.....105
Armien John I. Samson

- Design and Comparison Wireless Power Transfer Base on Copper (Cu) and Aluminium (Al) Rings Loop Magnetic Coupling.....110
Toto Supriyanto, Asri Wulandari, Teguh Firmansyah, and Suhendar

- Subminiature Multi-stage Band-Pass Filter Based on LTCC Technology Research.....114
Bowen Li and Yongsheng Dai

• Control and Automation Engineering

- Maneuvering Target Tracking Based on EBPSK Modulated JRC System.....118
Yu Yao, Huanglong Teng, and Lenan Wu

- Implementation and Testing of Autonomous Quad-Rotor Aerial Vehicle by Using Ardu-Pilot.....123
Rana Javed Masood, Wang Dao Bo, Zain Anwar Ali, Suhaib Masroor, and Muhammad Shafiq Loya

- Smoke Control through Ventilation Systems on the Fire-induced Conditions in a Stairwell.....130

Aristides Lopes da Silva, Shengwu Xiong, and Hussain Aamir

• **Medical Electronics and Image Processing**

Combining of Local Histogram and Local Slice Feature Vectors for Classifying Diffuse Lung Opacities in Thin-Section Computed Tomography Images.....135

Yoshihiro Mitani, Yusuke Fujita, Naofumi Matsunaga, and Yoshihiko Hamamoto

Design of a Novel Non-Invasive Wearable Device for Array Surface Electromyogram.....139

Wenguang Jin, Yidong Li, and Shangyao Lin