Contents

Analytical Modeling for Switched Damping Electromagnetic Energy Harvester ........................................ 1
Beng Lee Ooi, James M. Gilbert, A. Rashid A. Aziz
and Chung Ket Thein

Scalable Remote Water Monitoring System Using Radio Frequency Links ................................................. 13
Gerino Mappatao, Christian Aragones, Paul David Elpa,
Dea Marielle Pangan and Queenie Santos

Adaptive Packet Scheduling Scheme Based on Network Conditions in WLAN Using Fuzzy System ................ 25
Bakeel Maqhat, Mohd Dani Baba, Ruhani Ab Rahman,
Anuar Saif, Md Mahfudz Md Zan, Mat Ikram,
Mohd Asri Mansor and Farok Hj Azmat

Designing and Experimental Validation of an Electromagnetic Setup at MHz Frequency Under Different Propagation Media ...... 41
Muhammad Adil, Hasnah Mohd Zaid, Lee Kean Chuan
and Noor Rasyada Ahmad Latiff

MUSIC Algorithm for Imaging of Inhomogeneities Surrounded by Random Scatterers: Numerical Study ........... 51
Won-Kwang Park

Frequency Reconfigurable Aperture-Coupled Microstrip Array Antenna Using Periodic Defected Ground Structures ............... 61
M.A. Aris, M.T. Ali and N.H. Abd Rahman

Design of a SIW-Based Microstrip Diplexer Using TM_{010} Circular Cavity .................................................. 71
Noor Hasimah Baba, Aziati Husna Awang, M.T. Ali, M.A. Aris
and Hizamel Mohd Hizan
Planar Textile Antennas Performance Under Wearable and Body Centric Measurements ............................. 81
Kamilia Kamardin, Mohamad Kamal A. Rahim, Noor Asmawati Samsuri, Mohd Ezwan Jalil and Noor Azurati Ahmad

UHF-RFID Tag Antenna Using T-Matching and Double-Ended Rectangular Loop Techniques for Wristband Applications ............... 97
Tajchai Pumpoung, Pitchanun Wongsiritorn, Chuwong Phongcharoenpanich and Sompol Kosulvit

Low-Profile Metallic Tag Antenna for UHF-RFID System ............... 109
Kittima Lertsakwimarn and Chuwong Phongcharoenpanich

Multiband Antenna for Robotic Swarming with Application of Dynamic Boundary Tracking ............................. 119
Malay Ranjan Tripathy, Priya Ranjan and Arun Kumar Singh
Theory and Applications of Applied Electromagnetics
APPEIC 2015
Soh, P.J.; Sulaiman, H.A.; Othman, M.A.; Abd. Aziz, M.Z.A.; Abd Malek, M.F. (Eds.)
2016, VIII, 126 p. 100 illus., 81 illus. in color., Hardcover
ISBN: 978-3-319-30116-7