

ADVANCES IN SCIENCE, TECHNOLOGY AND ENGINEERING SYSTEMS JOURNAL

Volume 3 Issue 4

July-August 2018

CONTENTS

<i>Performance Enhancement of MIMO-OFDM Using Redundant Residue Number System Predicting Smoking Status Using Machine Learning Algorithms and Statistical Analysis</i>	01
<i>Mohamed Abd Elghany Khalifa, Amr Elsayed Emam, Mohamed Ibrahim Youssef</i>	
<i>Simulation Strategy to Enhance Oxygen Uptake and Reaction Forces at Leg Joints and Vertebral Bodies During Ergometer Exercise Under Altered Gravity</i>	08
<i>Yoshihiko Tagawa, Masayuki Omoto, Hiroo Matsuse, Naoto Shiba</i>	
<i>Scientific Principles behind 2017 World Universiade of Safety Lantern and Torch</i>	21
<i>Wei Long Chen, Fang Lin Chao</i>	
<i>Stream Cipher by Reed-Solomon Codes</i>	26
<i>Tao Wu, Ruomei Wang</i>	
<i>Direct Torque Control of Multiphase Doubly Converter-fed Asynchronous Machines Incorporating the Harmonic Torques</i>	33
<i>Javier Martínez-Román, Luis Serrano-Iribarnegaray, Juan Carlos del Pino-López, Pedro Cruz-Romero</i>	
<i>A detailed step-by-step electrical parameters identification method for photovoltaic generators using a combination of two approaches</i>	45
<i>Selma Tchoketch Kebir, Mohamed Salah Ait Cheikh, Mourad Haddadi</i>	
<i>Dc-link voltage drift compensation in a four level Double- Star Converter using redundant states via phase-shifted PWM strategy</i>	53
<i>Carlos A. Reusser</i>	
<i>An FPGA Implementation of Resource-Optimized Dynamic Digital Beamformer for a Portable Ultrasound Imaging System</i>	59
<i>Jingwei Xu, Yi Zheng, Mohan Chirala, Mohamed Almekkawy</i>	
<i>Interactive Virtual Reality Educational Application</i>	72
<i>Shouq. Al Awadhi, Noor. Al Habib, Dalal Al-Murad, Fajer Al deei, Mariam Al Houti, Taha Beyrouthy, Samer Al-Kork</i>	
<i>Theory Building of Quattro Bottom Line Approach for Sustainable Reverse Logistics from Government Perspective: The Indonesia Evidence</i>	83
<i>Hesti Maheswari, Gatot Yudoko, Akbar Adhiutama</i>	

<i>Extendable Board Game to Facilitate Learning in Supply Chain Management</i> Linda William, Za'Abu Bin Abdul Rahim, Robert de Souza, Eko Nugroho, Rio Fredericco	99
<i>Effectiveness of Routing Protocols for Different Networking Scenarios</i> Akbor Aziz Susom	112
<i>Complete Modeling of the Hydrogen Stored in a Spherical Cavity</i> Kamel. Idris-Bey, Sofoklis S. Makridis	122
<i>Acoustic Signal Processing and Noise Characterization Theory via Energy Conversion in a PV Solar Wall Device with Ventilation through a Room</i> Himanshu Dehra	130
<i>Supporting Active Aging Through A Home Automation Infrastructure for Social Internet of Things</i> Vittorio Miori, Dario Russo, Luca Ferrucci	173
<i>Vertical Accuracy Assessment of DSM from TerraSAR-X and DTM from Aerial Photogrammetry on Paddy Fields – Karawang, Indonesia</i> Bambang Riadi, Yustisi A. Lumban-Gaol, Bimo Wicaksono, Sekar Pranadita	187
<i>Design of smart chess board that can predict the next position based on FPGA</i> Alaa Hamza Omran, Yaser Muhammad Abid	193
<i>Experimental Investigation of Human Gait Recognition Database using Wearable Sensors</i> Sherif Said, Samer Al-Kork, Vishnu Nair, Itta Gowthami, Taha Beyrouthy, Xavier Savatier, M Fayek Abdrabbo	201
<i>Psychoacoustical Approach in Soundscape Characterization</i> Mia Suhanek, Ivan Djurek, Sanja Grubeša, Antonio Petoši?	211
<i>Textural Analysis of Pap Smears Images for k-NN and SVM Based Cervical Cancer Classification System</i> Abraham Amole, Bamidele Sanya Osalusi	218
<i>A Dual-Band 90-Degree SiGe HBT Active Phase Shifter Based on Band-Pass and Band-Stop Designs Using Dual-Band Resonators</i> Yasushi Itoh	224
<i>A modular design process for developing humanoid mobile robot VieBot</i> Hung Chan Nguyen, Ha Xuan Nguyen, Ngoc-Anh Mai, Lam Bao Dang, Hai Minh Pham	230
<i>A novel mixed-mode universal biquad employing plus current output DVCCs</i> Takao Tsukutani, Yasutomo Kinugasa, Noboru Yabuki	236

<i>Pole-Changing Windings for Close Ratio and 1:N Ratio Using the 3/Y / 3/Y Method</i>	241
<i>Gabor Kovacs</i>	
<i>Wireless Channel Measurement and Modeling in Industrial Environments</i>	254
<i>Kun Zhang, Liu Liu, Cheng Tao, Ke Zhang, Ze Yuan, Jianhua Zhang</i>	
<i>Topology, Discontinuities and Dimension Effects on CMOS Rotary Traveling Wave Oscillators</i>	260
<i>Rogelio Manuel Higuera Gonzalez, Mónico Linares Aranda, Luis Hernández Martínez, Carlos Sanabria Díaz</i>	
<i>Sequential Card Activities of Recollect Experience for Elderly with Dementia</i>	270
<i>Fang Lin Chao, Boxiu Fanjiang</i>	
<i>The Impacts of Distribution Generators' Size and Location on Power Efficiency and Voltage Profile in Radial LV Networks</i>	276
<i>Maher M.A Al-Maghalseh</i>	
<i>The experience of implementation with Agile Business Process Management</i>	284
<i>Denis Rodríguez, Enrique Silva Molina</i>	
<i>Defined Limited Fractional Channel Scheme for Call Admission Control by Two-Dimensional Markov Process based Statistical Modeling</i>	295
<i>Md. Asadur Rahman, Md. Shajedul Islam Sohag, Rasel Ahmmed, Md. Mahmudul Haque, Anika Anjum</i>	
<i>Synthesis of QDI Combinational Circuits using Null Convention Logic Based on Basic Gates</i>	308
<i>Duarte Lopes de Oliveira, Orlando Verducci, Vitor Leandro Vieira Torres, Robson Moreno, Lester de Abreu Faria</i>	
<i>A Comparative Analysis of two Controllers for Trajectory Tracking Control: Application to a Biological Process</i>	318
<i>Abyad Mohamed, Karama Asma, Khallouq Abdelmounaim</i>	
<i>Minimizing Time Delay of Information Routed Across Dynamic Temporal Sensor Networks</i>	327
<i>Michael J. Hirsch, Azar Sadeghnejad</i>	
<i>Application of Modularization Idea of Fault Tree in Ship Pilotage Risk Decision Making</i>	341
<i>Wei Hongbin</i>	
<i>Zebrafish Larvae Classification based on Decision Tree Model: A Comparative Analysis</i>	347
<i>Bayan AlSaaidah, Waleed Al-Nuaimy, Mohammed Rasoul Al-Hadidi, Iain Young</i>	

MARWIN: Localization of an Inspection Robot in a Radiation exposed Environment 354

Andre Dehne, Nantwin Moller, Thorsten Hermes

Amplitude-Frequency Analysis of Emotional Speech Using Transfer Learning and Classification of Spectrogram Images 363

Margaret Lech, Melissa Stolar, Robert Bolia, Michael Skinner

IR Sensing Embedded System Development for Prototype Mobile Platform and Multisensory Data Fusion for Autonomous Convoy 372

Hubert Bryan Riley, David Solomon Raj Kondru, Mehmet Celenk