

International Journal of Electronics and Electrical Engineering

CONTENTS

Volume 4, Number 3, June 2016

Electronic Technology and Power Engineering

A Novel Double Sided Linear Switched Reluctance Motor: Modeling and Performance Analysis	189
<i>Wajdi Zafrane, Mahir Dursun, Jalel Khediri, and Habib Rehaoulia</i>	
Four-Wave Mixing (FWM) Effects within a Micro-Optical Device.....	195
<i>Khomayuth Chaiwong, Kreangsaak Tamee, and Preecha P. Yupapin</i>	
Enhancement of Power Transfer Capability of Interconnected Power System Using Unified Power Flow Controller (UPFC).....	199
<i>Sandeep Sharma and Shelly Vadhera</i>	
Improving IMC Method for BLDC Speed Control by Using Steady-State DC Model	203
<i>Hon H. Trinh and Thinh D. Le</i>	
Design of Reliability Improvement in HV p-Channel LDMOS DUTs by a 0.25 μ m 60-V BCD Process	210
<i>Shen-Li Chen and Yu-Ting Huang</i>	
Literature Study on Condition of Tertiary of Interbus Transformer and Alternative Protection	215
<i>Joko Muslim, Didik F. Dakhlwan, Arrestor C. S. Rahayu, and Satyagraha A. Kadir</i>	
Harmonics Impact of Rooftop Photovoltaic Penetration Level on Low Voltage Distribution System	221
<i>Orawan Poosri and Chalie Charoenlarpnopparut</i>	
A Novel Isolated Filter Built with One Transistor for Industrial Devices	226
<i>Bayram Akdemir, Ahmet Afşin Kulaksız, and Şaban Öztürk</i>	
Modeling and Computation of Magnetic Leakage Field in Transformer Using Special Finite Elements	231
<i>Tarlochan Kaur and Raminder Kaur</i>	
Reconfigurable Integrated Patch Antenna for G-Band Applications	235
<i>Adel Saad Emhemmed, Abdulmagid A. Aburwein, and Nuredin Ali Ahmed</i>	
Scanning Tunneling Microscopy Observations of Sulfur Adsorbates on Pd (111) Surface	239
<i>Xinli Leng, Lili Song, Zhongping Wang, Xiaoqing Liu, and Li Wang</i>	
Intelligent Control System and Application	
Two-Channel sEMG Controller for Electric Hand Gripper: Amputee Hand Training Device	243
<i>Chanchai Supakitamonphan, Nutchanat Kitsongsang, Praetana Poohrung Rueang, and Thanapong Chaichana</i>	
Implementation of Wireless Electrocardiogram Monitoring System.....	248
<i>Thanapong Chaichana, Yutthana Pititeeraphab, Manas Sangworasil, and Takenobu Masuura</i>	

Implementation of Electric Wheelchair with Microcontroller 253

Yutthana Pititeeraphab, Thanapong Chaichana, and Nuntachai Thongpance

A Public Transport Fare Collection System with Smart Phone Based NFC Interface 258

Sadik Arslan, Veli Demirel, and İbrahim Kuru

Sensor Technology and Application

Behavior Analysis in the Elderly Care Center Using Kinect Depth Sensor 263

Hsien-Chou Liao, Yan-Ting Lin, Jhih-Sin Chen, Min-Han Xiao, Ching-Sen Chang, and Wei-Cheng Chen

Electric Field Distribution of Nanohole Thin Gold Film for Plasmonic Biosensor: Finite Element Method 268

M. Khammar

Muscle Sensing Device Design Using a PANDA Ring Resonator System 273

Kriengsak Yothapakdee, Kreangsak Tamee, and Preecha P. Yupapin