

# **International Journal of Information and Electronics Engineering**

## **CONTENTS**

---

---

### **Volume 4, Number 6, November 2014**

#### **• Image and Signal Processing**

Taximeter Design Based on Digital Image Processing Approach.....	409
<i>M. J. Assadifard, M. Javanmard, and M. H. Moazzam</i>	
Iterative Algorithm for High Resolution Frequency Estimation.....	413
<i>Isabel M. P. Duarte, José M. N. Vieira, Paulo J. S. G. Ferreira, and Daniel F. Albuquerque</i>	
Fast and Accurate Pupil Isolation Based on Morphology and Active Contour.....	418
<i>Mohammed A. M. Abdullah, S. S. Dlay, and W. L. Woo</i>	
Detection of Bone Metastases Using FCM and Edge Detection Algorithm.....	423
<i>A. Aslantaş, E. Dandil, and M. Çakiroğlu</i>	

Analysis of Human Electrocardiogram for Biometric Recognition Using Analytic and AR Modeling Extracted Parameters.....	428
<i>B. Vuksanovic and M. Alhamdi</i>	

#### **• Electronic Circuit and Control Systems**

Modeling and Simulation of a CMOS-Based Analog Function Generator.....	434
<i>Madina Hamiane</i>	
Design of a Digitally Controlled Inductor-Less Voltage Multiplier for Non-Thermal Food Processing.....	438
<i>Kei Eguchi, Shinya Terada, and Ichirou Oota</i>	
Prediction of Time Sequence Using a TSK-Type Fuzzy Cerebellar Model Articulation Controller Network.	446
<i>Chin-Ling Lee and Cheng-Jian Lin</i>	
Current Sliding Mode Control with Gain-Scheduled Parameters for Permanent Magnet Synchronous Machines .....	450
<i>Ningzhi Jin and Xudong Wang</i>	

Design of Wideband High Gain and Low Noise Amplifiers.....	456
<i>Yinhua Yao and Tongxiu Fan</i>	

Numerical Investigation of the Coulter Principle in a Hydrodynamically Focused Microfluidics.....	462
<i>Muheng Zhang and Yongsheng Lian</i>	

#### **• Networking and Communication**

Analysis of Rain Effects on Free Space Optics Based on Data Measured in the Libyan Climate.....	469
<i>Mohamed O. Twati, Mahmud M. Badi, Adam F. Adam</i>	
Performance Enhancement of AODV Routing Protocol in Wireless Mesh Networks.....	473

*Tayyeba Minhas, Xu Ning, Satish Anamalamudi, Minglu Jin, and Zahid Minhas Khan*

The Comprehensive Performance Rating for Hadoop Clusters on Cloud Computing Platform.....	480
<i>Fong-Hao Liu, Ya-Ruei Liou, Hsiang-Fu Lo, Ko-Chin Chang, and Wei-Tsong Lee</i>	
On the Secure Outage Performance for Dual-Hop Network Coding Systems with Cooperative Jamming .....	485
<i>Hequn Liu, Mingtai He, Yameng Zhou, Tianli Wu, Gaofeng Pan, and Tingting Li</i>	
Movement-Type Classification Using Acceleration Sensor.....	490
<i>Chu-Hui Lee and Jyun-Han Liou</i>	