Volume 3, Number 2, March 2013

Trustworthy Node Detection in Cognitive Radio in Hostile Environments ................................................. 132
Ehsan Moeen Taghavi and Bahman Abolhassani

Distributed Case Based Reasoning Model with Semantic Intelligence .......................................................... 136
Chandrasekaran Subramaniam, V. D. Dhandayudhapani, Niveditha Narendhran, and Mohammed Nazim Feroz

A New Method for Current Differential ISFET/REFET Readout Circuit ...................................................... 141
Taksin Nobpakoon, Wanchai Pijitrojana, and Amporn Poyai

Message Domains as an Architectural Solution to Complexity in Distributed Message-Oriented Systems .......... 144
Aurélio Akira Mello Matsui and Hitoshi Aida

Simulation of Charge Transfer Process in a 2DEG-CCD ........................................................................ 149
M. Aliyari and A. Bozorgmehr

Tranceiver Mixer MMICs Employing Cascode Circuit Structure for Personal Area Network (PAN) Applications ......................................................................................................................... 152
Young Yun, Young-Bae Park, Jang-Hyeon Jeong, Bo-Ra Jung, Jeong-Gab Ju, and Suk-Youb Kang

The Role of Weighted Entropy in Security Quantification .............................................................................. 156
Constantinos Patsakis, Dimitrios Mermigas, Sotirios Pirounias, and Gregory Chondrokoukis

Circuit Implementations and Comparison between Different Multiplication Factors in Terahertz Frequency Generation in 90nm Process Using Linear Superposition .............................................................................. 160
Avijit Saha, Shibani Ghosh, Md. Sakib Hasan, Ishraq Ahmed, and Avijit Das

Design Architecture of Custom Configurable Process Automation System for Small Scale Industries .......... 164
R. Sindhu, Anish Sathyan, and Vijaya Bhaskara Rao

Towards an Efficient Content-Based Dissemination Protocol and Notification Techniques for Disconnected MANETs ........................................................................................................................................ 167
Hassana Maigary Georges and Wang Dong

Fusion of Multi Color Space for Human Skin Region Segmentation ............................................................ 172
Fan Hai Xiang and Shahrel Azmin Suandi

SPAM Control Using CPU Timestamps ........................................................................................................... 175
Sandesh Jagannath and Radhesh Mohandas

dMLRid – An XML-Based Proof-of-Concept Mobile DRM Framework for Sharing Learning Contents among Mobile Networks ........................................................................................................... 180
Vladan Nincic, Maiga Chang, and Fuhua Lin
A Preview on Microcontroller Based Electronic Voting Machine..................................................185
  Diponkar Paul and Sobuj Kumar Ray

Solving Harmonic Elimination Equations in Multi-Level Inverters by Using Neural Networks...........191
  O. Bouhali and N. Rizoug

Preprocessing: A Prerequisite for Discovering Patterns in Web Usage Mining Process......................196
  C. Ramya, K. S. Shreedhara, and G. Kavitha

Prediction of Software Project Effort Using Linear Regression Model............................................200
  Mohd Sadiq, Aleem Ali, Syed Uvaid Ullah, Shadab Khan, and Qamar Alam

Design of Low Pass FIR Filter Using Artificial Neural Network......................................................208
  Harpreet Kaur and Balwinder Dhaliwal

Femtocell Suburban Deployment in LTE Networks..............................................................................208
  M. Arif, I. M. Yameen, and M. A. Matin

Performance Improvement Using Wavelet Denoising for UWB-IR System....................................213
  Joon Key Kim, Sung Jin Park, Seung Man Yang, Sung Sue Hwang, and Suk Chan Kim

Using an Ethnographic Approach to Collect Emotional Data in Affective Learning Research..............216
  Xiaomei Tao, Qinzhou Niu, and Mike Jackson

Minimum-Hop Load-Balancing Graph Routing Algorithm for Wireless HART.................................221
  Abdul Aziz Memon and Seung Ho Hong

Industrial Automation and Control System to Minimize Food Spoilage and Imports in Pakistan..........226
  Sulman Farrukh, Muhammad Shahzad, Usman Khan, Talha Chughtai, and Ali Nawaz Khan

Unconstrained Handwritten Kannada Numeral Recognition..............................................................230
  Basappa B. Kodada and Shivakumar K. M.

Cluster Detection Analysis Using Fuzzy Relational Database.........................................................233
  Pabitra Kumar Dey, Gangotri Chakraborty, and Suvobrata Sarkar