ISSN Print: 2074-9007, ISSN Online: 2074-9015 Volume 6, Number 1, December 2013

International Journal of

## Information Technology and Computer Science



IJITCS Vol.6
Http://www.mecs-press.org



## **International Journal of Information Technology and Computer Science (IJITCS)**

ISSN Print: 2074-9007, ISSN Online: 2074-9015

Volume 6, Number 1, December 2013

## **Contents**

REGULAR PAPERS	
Computer Simulation of Theoretical Model of Electromagnetic Transient Processes in Power Transformers  Slobodan Bjelić, Zorica Bogićević	1
New RLS Wiener Smoother for Colored Observation Noise in Linear Discrete-time Stochastic Systems Seiichi Nakamori	13
Improved Decomposition for a System of Completely Specified Boolean Functions Saeid Taghavi Afshord, Yuri Pottosin	25
Parallel Implementation of Color Based Image Retrieval Using CUDA on the GPU Hadis Heidari, Abdolah Chalechale, Alireza Ahmadi Mohammadabadi	33
Method for Object Motion Characteristic Estimation Based on Wavelet Multi-Resolution Analysis: MRA Kohei Arai	41
Energy-efficient Secure Directed Diffusion Protocol for Wireless Sensor Networks Malika BELKADI, Rachida AOUDJIT, Mehammed DAOUI, Mustapha LALAM	50
A Survey of Unipath Routing Protocols for Mobile Ad Hoc Networks  M.Barveen Banu, P.Periyasamy	57
FSM Circuits Design for Approximate String Matching in Hardware Based Network Intrusion Detection Systems  Dejan Georgiev, Aristotel Tentov	68
Social Network Clustering Narges Azizifard	76
An Image Encryption Scheme Based on Bit Circular Shift and Bi-directional Diffusion Ruisong Ye, Shaojun Zeng, Peiqian Lun, Junming Ma, Chuting Lai	82
A New Fault Detection Method Using End-to-End Data and Sequential Testing for Computer Networks Mohammad Sadeq Garshasbi, Shahram Jamali	93
Management of Automotive Engine Based on Stable Fuzzy Technique with Parallel Sliding Mode Optimization  Mansour Bazregar, Farzin Piltan, Mehdi Akbari, Mojdeh Piran	101