International Journal of Computer Theory and Engineering

CONTENTS

Volume 4, Number 6, December 2012

Comprehensive Review of Information Systems, Medical Institutions……..862
S. Aghazadeh, A. Aliyev, and M. Ebrahimnezhad

Review the Role of Hospital Information Systems in Medical Services Development……..866
S. Aghazadeh, A. Aliyev, and M. Ebrahimnezhad

SEEDI: Secure and Energy Efficient Approach for Detection of an Intruder in Homogeneous Wireless Sensor Networks…….871
K. Shaila, M. Sajitha, V. Tejaswi, S. H. Manjula, K. R. Venugopal, and L. M. Patnaik

Development of a Semantic Multi-Agent Based Intelligent Ethical Wealth Management Planner……876
D. V. Viswacheda, Patricia Anthony, Rosita Chang, and Chin Kim On

Fast Eye Detection Using Boundary Value and Template Based Method……..880
A. Hemlata and Mahesh Motwani

Use of Agent Technology in Relation Extraction for Ontology Construction……884
M. D. S. Seneviratne and N. R. Ranasinghe

Elements of the Modern Application Software Development……891
O. Moravcik, D. Petrik, T. Skripcak, and P. Schreiber

Effective Memory Access Optimization by Memory Delay Modeling, Memory Allocation, and Slack Time Management……897
Sultan Daud Khan

Performance Improvement of MX-CIF Quadtree by Reducing the Query Results……902
Wei Yusi and ShojiroTanaka

Robust Digital Watermarking in CAT Two Bands……..907
Xiao-Wei Li, Jae-Sik Yun, Sung-Jin Cho, and Seok-Tae Kim

Enterprise Architecture Analysis Using AHP and Fuzzy AHP……...911
Mahsa Razavi Davoudi and Kourosh Sheykhvand

Applied Dynamic Chain of Responsibility in Web Application Security……...917
Mahdi Negahi Shirazi, Maryamsadat Hejazi, and Hossein Dolatabadi

Statechart: A Visual Language for Workflow Specification……921
Wendy Wenhui Zhang, Theresa Beaubouef, and Huilin Ye

Is Cloud Secure Enough……..926
Farzad Sabahi

Analysis of Direction of Arrival Techniques Using Uniform Linear Array……931
S. N. Bhuiya, F. Islam, and M. A. Matin

Design and Development of Microcontroller Based Digital Bangla Clock……935
Victor Kathan Sarker and M. Ataur Rahman

Impact of Rotations in the Salsa20/8 Image Encryption Scheme……...938
Alireza Jolfaei, Abdolrasoul Mirghadri, and Ahmadreza Vizandan

A Low Area Overhead IEEE-1500-Compliant Wrapper for Embedded Memories……944
M. Songhorzadeh and R. Niaraki Asli

Mobile Diabetes Management on iPhone……...949
Di Zhu and Flora S. Tsai

An Efficient Image Compression Algorithm Based on Histogram Based Block Optimization and Arithmetic Coding……954
Subarna Dutta, Aditya Abhinav, Partha Dutta, Purushottam Kumar, and Amiya Halder

Mechanism of Minimum Credential Disclosure with Privacy Preserved in Trust Builder2 Framework……..958
Dhiraj Shrestha and Li Jianli

Turbo Decoder Design Employing a New Phase Estimation Hard Decision Stopping Criterion Method……963
Wen-Ta Lee and Yao-Chang Chang

Automatic Recognition of Finger Gestures Using a Tri-Axis Accelerometer……967
Yinghui Zhou, Lei Jing, and Zixue Cheng

LIDAR Image Processing with Progressive Morphological Filtering……971
Yilong Lu and Xinyuan Lin

Cloud Based Remote Infrastructure Management……..975
Ananthakrishnan Ravi, Roopak Venkatakrishnan, and Baskar Kannan

Data Partitioning and Bit Vector Approach for Weighted Frequent Item Set Mining……980
M. A. Jabbar, B. L. Deekshatulu, and Priti Chandra

Limiting Answers to Queries to Enhance Security of Mobile Database……983
Dongyi Chen and Subhasish Mazumdar

Analytical Approach for the TH-BPSK Ultra-Wideband Systems Performance……987
Chihi Houda, Hizem Moez, and Bouallegue Ridha

A Comparative Study on Fuzzy Approaches for COCOMO's Effort Estimation……...990
Anupama Kaushik, A. K. Soni, and Rachna Soni

Disconnection Tolerant M-Emergency System……...994
Sangwhan Cha and Weichang Du

An Intelligent Multi-Gesture Spotting Robot to Assist Persons with Disabilities……..998
Amarjot Singh, Devinder Kumar, Phani Srikanth, Srikrishna Karanam, and Niraj Acharya

Malignant Brain Tumor Detection……1002

Amarjot Singh, Shivesh Bajpai, Srikrishna Karanam, Akash Choubey, and Thaluru Raviteja

A Literature Survey on Security Challenges in VANETs……..1007
Ahmad Yusri Dak, Saadiah Yahya, and Murizah Kassim

Expert System to Detect Incipient Faults in Rotating Machines Using Fuzzy Logic and Virtual Instrumentation……..1011
Renato K. Vanni, Galdenoro Botura Jr., Marilza A. Lemos, Marcio A. Marques, and Luiz C. Rosa

A Study on Low Cost Electrification Using Solar Energy a Field Work……..1015
R. Sankar, P. K. Jery Althaf, and S. Sreevas

Technology Adoption and Indian Consumers: Study on Mobile Banking……1020
Rahmath Safeena, Hema Date, Abdullah Kammani, and Nisar Hundewale

Towards a Patient-Centered Collaborative Health Care System Model……...1025
O. Kotevska, E. Vlahu-Gjorgievska, V. Trajkovic, and S. Koceski

Fast Packet Classification Algorithms……...1030
Mrudul Dixit, Anuja Kale, Madhavi Narote, Sneha Talwalkar, and B. V. Barbadekar

Trademark Recognition Using a Weighted Combination of Different Image Features……1035
Madeena Sultana and Mohammad Shorif Uddin

Very Low Cost Design and Implementation of Block Truncation Coding for Image Compression……1039
Sajed Zadeh Dadashi and Sahar Zadeh Dadashi