ISSN Print: 2074-9007, ISSN Online: 2074-9015 Volume 5, Number 11, October 2013

International Journal of

Information Technology and Computer Science



IJITCS Vol.5 Http://www.mecs-press.org Vol. 5 No.11 October 2013



International Journal of Information Technology and Computer Science (IJITCS)

ISSN Print: 2074-9007, ISSN Online: 2074-9015 Volume 5, Number 11, October 2013

Contents

Utilizing Conceptual Indexing to Enhance the Effectiveness of Vector Space Model	1
Aya M. Al-Zoghby, Ahmed Sharaf Eldin Ahmed, Taher T. Hamza	
Artificial Neural Network Turbulent Modeling for Predicting the Pressure Drop of Nanofluid <i>M. S. Youssef, Ayman A. Aly</i>	13
Beampattern for Multiple Antennas in Hybrid Terrestrial Satellite Communications System (HTSCS) Farman Ullah, Nadia N Qadri, Aamir Khan, Khalid Ibrahim	21
A Novel Cat Swarm Optimization Algorithm for Unconstrained Optimization Problems Meysam Orouskhani, Yasin Orouskhani, Mohammad Mansouri, Mohammad Teshnehlab	32
A Proposed Model for Web Proxy Caching Techniques to Improve Computer Networks Performance Nashaat el-Khameesy, Hossam Abdel Rahman Mohamed	42
Performance Comparison of Various Diversity Techniques using Matlab Simulation Sanjiv Kumar, P. K. Gupta, G. Singh, D. S. Chauhan	54
A Framework for Selection of Membership Function Using Fuzzy Rule Base System for the Diagnosis of Heart Disease Manisha Barman, J Paul Chaudhury	62
One-bit Hard Combination Decision Scheme for Cooperative Spectrum Sensing in Cognitive Radio Mohammed Mynuddin, Tania Khadem, Md. Ibrahim Abdullah, Md. Shamim Hossain, Mohammad Alamgir Hossain	71
Design and Implementation of Low Power 8-bit Carry-look Ahead Adder Using Static CMOS Logic and Adiabatic Logic Abdul Sajid, Ahmad Nafees, Saifur Rahman	78
WEBspike: A New Proposition of Deterministic Finite Automata and Parallel Algorithm Based Web Application for EEG Spike Recognition Anup Kumar Keshri, Shamba Chatterjee, Barda Nand Das, Rakesh Kumar Sinha	93
Novel Spectrum Handoff in Cognitive Radio Networks Using Fuzzy Logic Nisar A. Lala, Moin Uddin, N.A. Sheikh	103
Design Serial Fuzzy Variable Structure Compensator for Linear PD Controller: Applied to Rigid Robot Farzin Piltan, Saleh Mehrara, Javad Meigolinedjad, Reza Bayat	111