2014 International Conference on Computing for Sustainable Global Development

(**INDIACom 2014**)

New Delhi, India 5-7 March 2014



IEEE Catalog Number:

ISBN:

CFP1483W-POD 978-1-4799-2278-9

Technical Papers

- Development of Hybrid Similarity Measure Using Fuzzy Logic for Performance Improvement of Information Retrieval System 1
 - Yogesh Gupta, A. K. Saxena, Ashish Saini and Aditi Sharan
- PV Cell Models and Dynamic Simulation of MPPT Trackers in MATLAB 6
 Dr. Rachana Garg, Dr. Alka Singh and Shikha Gupta
- Predicting Insurance for Sustainable Development Using Gradient Methods Based Neural Networks 13
 Dharminder Kumar, Sangeeta Gupta and Parveen Sehgal
- Entropy Based Script Identification of a Multilingual Document Image 19 Rumaan Bashir and S. M. K. Quadri
- AHP, Fuzzy Sets and TOPSIS Based Reliable Route Selection for MANET 24
 Vinay Kumar Saini and Vivek Kumar
- Routing in MANET Using Cluster Based Approach (RIMCA) 30
 Dhari Ali Mahmood and Rahul Johari
- Design of Low Power Split Path Data Driven Dynamic Ripple Carry Adders 37
 Arun and Manoj Kumar
- Study the Effect of Adding New Components on Conventional Microstrip LPF Design 42 Ahmed Hameed Reja, Syed Naseem Ahmad and Dhari Ali Mahmood
- A Study of Academic Performance Evaluation Using Fuzzy Logic Techniques 48
 Ramjeet Singh Yadav, A. K. Soni and Saurabh Pal
- A Cross-Layer Approach for Congestion Control in Multi hop Mobile Ad Hoc Networks 54
 D. Sunitha, A. Nagaraju and G. Narsimha
- Cloud Economics: Vital Force in Structuring the Future of Cloud Computing 61 Mikku Dave, Meenu Dave and Y.S. Shishodia
- Multimedia Information Systems: A Comparison Perspective of Social Web Sites 67
 Radha Krishna and K. Chandra Sekharaiah
- A Web Search Survey: A Study for Fusion of Different Sources to Determine Relevance 72 Nidhi Saxena, Neeraj Kumar Tiwari and Mohd. Husain
- Geomatics Oriented Model for Converging Electrical Transmission Networks into State Wide Area Networks 75
 Shailesh Kumar Shrivastava, Amar Nath Pandey and Prabhat Kumar
- Recorder App: Designing and Development of a Smart Phone Application 81
 Mohd Izhar and Mannu Malhotra

- An Implementation of Post Processing Technique in 3D Graphics 85
 Saket Kumar Pathak and Ankur Choudhary
- Metrics of Social Websites: A Case Study 89
 Athma Ram K and Chandra Sekharajah K
- Designing compatible hardware platform for implementation of NIALM 93
 Sunil Semwal, Rai Sachindra Prasad and Munendra Singh
- Telecommunication Services and World Trade Organization: A Developing Economy's Perspective 98
 Surendra Kumar
- A New Perspective to Data Processing: Big Data 110
 Anhad Mathur, Akash Sihag, Gaurav Bagaria and Shalini Rajawat
- An Approach to Ensure Superior and Sustainable Software Development Performance 115
 Sachin Kumar and Saibal K Pal
- Data Warehouse Systems in the Environment of Cloud Computing A Comparative Study of Elastic Cloud Computing and Organizational Systems 118 Neepa K. Shah
- Cooperative Optimization for Efficient Financial Time Series Forecasting 124
 S. C. Nayak, B. B. Misra and H. S. Behera
- Spatial Datamodel Based Schema Creation for the Forest Change Phenomenon 130
 K. R. Manjula and Singaraju Jyothi
- Need for Hindi-Dogri Machine Translation System 136
 Preeti Dubey
- Impact of Superconducting Magnetic Energy Storage on Frequency Stability of an Isolated Hybrid Power System 141
 Shailendra Singh, Harshita Joshi, Saurabh Chanana and Rohit kumar verma
- Analyze the Context of Ubiquitous Computing Through Location Measurement and Time Affirmation of CI & IC 146

Anil Dubey, Rohit Saxena, Ashish Guwalani, Khushbu Gulabani and Rakesh Rathi

- Requirements Elicitation: Issues and Challenges 151 Shreta Sharma and S. K. Pandey
- Accessible Computing for Sustainable and Inclusive Development 156
 Ramesh Babu J and Chandra Sekharaiah K
- Improved Radius Selection in Sphere Decoder for MIMO System 161 Sonjuhi Mrinalee, Honey Priya Garg, Garima Mathur R. P. Yadav
- Sustainable Supply Chain Management Through Enterprise Resource Planning (ERP)*: A Model of Sustainable Computing 166
 Broto Rauth Bhardwaj

- I/O Standard Based Power Optimized Processor Register Design on Ultra Scale FPGA 172
 Prabhat Ranjan Singh, Bishwajeet Pandey, Tanesh Kumar and Teerath Das
- An Efficient Filtration Approach for Mining Association Rules 178
 Lalit Mohan Goyal and M. M. Sufyan Beg
- Power Aware Link Availability and Routing Procedure in Distributed Cluster Based Routing Protocols Used in Mobile Ad hoc Networks. 186
 Mohd. Amjad and M. N. Doja
- Rough Set Based System for Effective E-learning 192
 Hemant Rana, Rajiv and Manohar Lal
- Fuzzy Regression Interval Models for Forewarning Onion Thrips 197 Amrender Kumar, P. S. Srinivas, A. K. Mishra and H. Chandrasekhran
- Artificial Neural Network Based Model for Traffic Production and Attraction: A Case Study of All the Zones of Delhi Urban Area 202 Shivendra Goel
- Comparative Study of Streaming Data Mining Techniques 209 Shabia Shabir Khan, M.A.Peer and S.M.K.Quadri
- Decision Support System Using ANT Colony Optimization 215
 Anil Chopra, Suruchi Sinha, Shukun Tokas and V.K. Panchal
- Reliability Prediction Using Fuzzy Logic 219
 Mohan Kumar K. N and K Seetharam
- Achieving Knowledge Management Through Cloud Computing A Case in Higher Education 222 Sanasam Bimol, Masih Saikia and Laithangbam Pushparani Devi
- Mining Inflation Rate Using Predictive And Descriptive Data Mining Techniques 228
 T. Soni Madhulatha and S. Sameen Fatima
- A Novel Approach for Salt and Pepper Noise Removal based on Heuristic Analysis of Neighboring Pixels 233
 Om Prakash Verma, Shreya Arora and Isha Singh
- Analysis and Comparison of Weighted Subspace MUSIC and Root-MUSIC Using Spatial Smoothing Techniques for Smart Antenna Systems 239
 A.Udawat, P.C. Sharma and S. Katiyal
- Extendable Framework for Monitoring Heterogeneous Multi-Accelerator HPC Cluster 244
 Deepika H.V, Mangala N and N. Sarat Chandra Babu
- Analysis of MLP Model on WSN Localization Data by Using Various Training Functions 250
 Cosmena Mahapatra
- Performance Comparison of 20 Gbps and 40 Gbps InfiniBand Interconnect 253
 Alpana Rajan and Brijendra Kumar Joshi

- Customizing AOSP for Different Embedded Devices 259
 Charan K.V, S. P Sharmila and A.S Manjunath
- Identification of Simple Sequence Repeats in Chloroplast and Mitochondrial Genome of Wheat 265 K. Mishra, Sakshi Chaudhary, Amrender Kumar and H. Chandrasekharan
- An Open Framework for Adaptive and Dynamic Reconfiguration in Ubiquitous Environment 271 Anil Chopra, Shukun Tokas, Suruchi Sinha and V. K. Panchal
- A Novel Electronic Voting Machine Design with Voter Information Facility Using Microcontroller 274 Vaibhav Bhatia and Rahul Gupta
- Design of Orchestrator for the Solution of Simultaneous Mathematical Equations Using OSGI 277
 Shweta Agrawal and Rajkamal
- Integration of Semantic Search Technique and Pervasive Computing 283
 Anil Chopra, Shukun Tokas, Suruchi Sinha and V. K. Panchal
- An Improved Modeling of Mode-Choice Behavior in Urban Area Using Adaptive Neural Fuzzy Inference System 286
 Shivendra Goel and Ashok K. Sinha
- MGI: A New Heuristic for Classifying Continuous Attributes in Decision Trees 291
 Anuradha and Gaurav Gupta
- Architectural Framework for implementing Visual Surveillance as a Service 296
 Chandra Mani Sharma and Harish Kumar
- Performance Investigation of a Single-Phase Unidirectional Buck Convertor for Improved Power Quality 302
 Muzaffar Hussain, Mubashir Ul Zaman, Shahid Iqbal and Shabana Urooj
- Efficient Way of Searching Data in MapReduce Paradigm 305 Gita Shah, Annappa and K. C. Shet
- New Quantum Inspired Tabu Search for Multi-level Colour Image Thresholding 311 Sandip Dey, Siddhartha Bhattacharyya and Ujjwal Maulik
- Understanding of Cognitive Robotics 317
 Anil Chopra, Jitender K. Chandel, V. K. Panchal and Suruchi Sinha
- Harmonic Analysis of CSI-fed Induction Motor Drive 321
 Vivek Sharma and Gauray Mendiratta
- Performance Evolution in Distributed Real-Time System under Dynamic Load Sharing Scheme 326 Urmani Kaushal, Avanish Kumar and Narendra Kumar
- Analysis Based on Chunk Size and Threads for File Transfer Using Message Transmission
 Optimization Mechanism (MTOM) 332
 Hitesh Mhatre, Arjun Jaiswal and Ketan Kanere

- Detection of Lameness of Cow based on Body Weight using Artificial Neural Network 337 Ravi Kant Gupta, S.S. Lathwal and T.K. Mohanty, A.P. Ruhil and Y. Singh
- Enhanced Architecture of E-Governance for Detached Web 342 Sharvan Kumar Garg and Manoj Kapil
- Design and Simulation of Power Efficient Traffic Light Controller (PTLC) 348
 Jatin Shridhar, Ruchin and Pawan Whig
- Parallel Graph Coloring Algorithms on the GPU Using OpenCL 353
 Shilpi Sengupta
- Multiview Gait Biometrics for Human Identity Recognition 358 Girija Chetty, Prasad Yarlagadda, Vamsi Madasu and Anurag Mishra
- IT-Business Alignment Strategy for Business Growth 364 Afnan Atiah Alsolamy, Usman A. Khan and P. M. Khan
- A System Model of Online Trading System for Nepal Stock Exchange 367
 Bikash Dhakal and Manoj Kumar Gupta
- Assistive Communication System for Speech Disabled Patients Based on Electro-oculogram Character Recognition 373
 Piyush Swami and Tapan K. Gandhi
- Emerging Applications of Data Mining for Healthcare Management A Critical Review 377

 Anand Sharma and Vibhakar Mansotra
- An Imperfect-Debugging Model with Learning- Factor Based Fault-Detection Rate 383
 Javaid Iqbal, S.M.K. Quadri and N. Ahmad
- Detailed Analysis of Existing Multi-Agent Based E-Learning Systems 388
 Mohammad Ubaidullah Bokhari and Sadaf Ahmad
- A Fuzzy Expert System to Evaluate Customer's Trust in B2C E-Commerce Websites 394 Baljeet Kaur and Sushila Madan
- Analytical Study of Agent Based Distributed Data Mining and its Ontology 400
 Bimalendu Pathak and Madhavi Sinha
- Project Information and Management System of ICAR (PIMS-ICAR) 405
 Pal Singh, Sudeep, AlkaArora, R. C. Goyal and P. K. Malhotra
- An Unsupervised Change detection Technique based on Ant colony Optimization 408
 Akansha Mehrotra, Krishna Kant singh and Priyanka Khandelwal
- Efficient Search on Encrypted Data Using Bloom Filter 412 Saibal K. Pal, Puneet Sardana and Ankita Sardana

• Evaluation Study of the Reconstruction Analysis of Visualization for Three Ways Construction Using Epipolar Geometry 417

Abdul Jabbar Shaikh Azad and Bidyapati Kumar

- An Approach for OO Software Size Estimation Using Predictive Object Point Metrics 421
 Shubha Jain, Vijay Yadav and Raghuraj Singh
- A Globalized Intelligent System 425 Sarika Jain and N. K. Jain
- Effect of Temperature and Chiral Vector on Emerging CNTFET Device 432 Sanjeet Kumar Sinha, Preeti Singh and Saurabh Chaudhury
- A Hypothesis to Develop Personal Network System for Future Telecommunication in Proceed of 4G 436 Vipin Khattri, Neeraj Kumar Tiwari and Vinodani Katiyar
- Gharibi_FaceCard for Contacts and Easy Personal-Information Exchange 441 Gharib Wajeb Gharibi and Wajeb Gharibi
- GLCM and Multi Class Support Vector Machine based Automated Skin Cancer Classification 444 Ritesh Maurya, Surya Kant Singh, Ashish K. Maurya and Ajeet Kumar
- An Empirical Evaluation of the Impact of Aspectization of Cross-Cutting Concerns in a Smart-Phone Based Application 448
 Shalini and Syed Imtiyaz Hassan
- A Multi-objective Optimization Algorithm for Uniformly Distributed Generation of Test Cases 455 Kavita Choudhary and G.N. Purohit
- A Data Dissemination Model for Cloud enabled VANETs using In-Vehicular Resources 458
 Mohd Umar Farooq, Mohammad Pasha and Khaleel Ur Rahman Khan
- Building Extraction from VHR Imagery using Morphological Shadow and Building Operator 463
 Krishna Kant Singh and AkanshaMehrotra
- MalmSoft: An Online Software for Computing Total Factor Productivity Using Malmquist Index 468
 Rajni Jain, Sarita Kumari, Alka Arora and Sudeep
- Design of Linear-Phase Digital FIR Filter Using Differential Evolution Optimization with Ripple Constraint 474
 Shekhar Sharma, L. D. Arya and Sumant Katiyal
- New Fractional Order Hyperchaotic System and Generalized Projective Synchronization 481
 Ayub Khan, Net Ram Garg and Geeta Jain
- Optimizied Techniques for Image Hashing 486 S. Sinari, A. Aurora, D. Ruparel and S. H. Karamchandani
- A New Approach for Coronary Plaque Layer Analysis Based on IVUS 490
 S. Sridevi and M. Sundaresan

- Collaborative Filtering Based Simple Restaurant Recommender 495 Umar Farooque, Bilal Khan, Abidullah Bin Junaid and Akash Gupta
- Analysis of Novel SGOI-TFET with Record Low Subthreshold Swing (SS) and High Ion/Ioff Ratio 500 Sweta Chander, Om Prakash Mahto, Vivek Chander and S. Baishya
- Minimizing Test Cases to Reduce the Cost of Regression Testing 505
 Sudhir Kumar Mohapatra and Srinivas Prasad
- A Study On Project Scope As A Requirements Elicitation Issue 510
 Neetu Kumari, S and Anitha S. Pillai
- Edge Detection Using Trapezoidal Membership Function Based on Fuzzy's Mamdani Inference System 515
 - E. Boopathi Kumar and M. Sundaresan
- A Java Based Visual Tool to Learn CPU Scheduling Algorithms 519
 Neetu Jain and P. V. Suresh
- Component Selection Repository with Risk Identification 524
 Parminder Kaur, Jarnail Singh and Hardeep Singh
- Comparison between Image Codecs: JPEG and JPEG2000 532 Mukund Jha, Amarjeet Singh Yumnam and Dilip Raju
- Design and Analysis of a Simple D Flip-Flop Based Sequential Logic Circuits for QCA Implementation 536
 M. R. Beigh and M. Mustafa
- Design Comparison of Traditional Application and SaaS 541
 R. Vidhyalakshmi and Vikas Kumar
- Maximizing Knowledge Management Returns in ECommerce 545 Shailesh Kumar Shivakumar and P. V. Suresh
- Challenges of Global Stakeholder's in Software Release 551 Arti Rana, S. P. Singh, Rachna Soni and Ashish Jolly
- Factors Influencing the Agile Methods in Practice Literature Survey & Review 556 Deepali Shahane, Pallavi Jamsandekar and Dhananjay Shahane
- Driving Business Value through an Effective IT Strategy Development 561
 Khulood Salem Albeladi, Usman A. Khan and P. M. Khan
- Agile Estimation Using People and Project Related Factors 564
 Rashmi Popli and Naresh Chauhan
- Effective Evaluation of Tumour Region in Brain MR Images Using Hybrid Segmentation 570 Kimmi Verma, Shabana Urooj and Rituvijay

 A First Attempt to Develop a Lexical Resource for Dogri Language: Dogri WordNet Using Hindi WordNet 575

Rakesh kumar, Vibhakar Mansotra and Tareseem Kumar

- Advanced Web Engineering Methologies with integration of OWL 579
 Diksha Deo
- Armed anti infiltration robot based on peripheral interface controller using infrared ranging technique with single disc system 583
 Bhagat Singh. T. E
- Novelautonomous Surveillance System cum Motion Detector 587
 Samit Ganguli and Rishu Chaujar
- Design and Code Time Testability Analysis for Object Oriented Systems 590
 Megha Joshi and Neetu Sardana
- Naïve Bayes Classification of DRDO Tender Documents 593
 Sumit Goswami, Prakriti Bhardwaj and Sunaina Kapoor
- Understanding Biological Vision Repairment Using Neurostimulation 598 Vanita kareer, Shruty Ahuja and Anjali Chhabra
- Academic Coding Guideline Model OCG 602 Hareesh GU and Sanjay Kumar Dubey
- Analysis of Eye Tracking Techniques in Usability and HCI Perspective 607
 Chahat Sharma and Sanjay Kumar Dubey
- Generalized Software Quality Assurance Technique for Maintenance parameter Evaluation 613
 Shashank Sharma and Sumit Srivastava
- Speckle Reduction in Ultrasound Images Using an Improved Conductance Function Based on Anisotropic Diffusion 619
 Vikrant Bhateja, Gopal Singh, Atul Srivastava and Jay Singh
- Polarity Detection of Sarcastic Political Tweets 625
 D. K. Tayal, Sumit Yadav, Komal Gupta, Bhawna Rajput and Kiran Kumari
- Font Legibility for Printed Text and Onscreen Text 629 Vaishali Joshi, Narinder Kaur and Ritika Wason
- Multimodal Activity Recognition Based on Automatic Feature Discovery
 Girija Chetty, Matthew White, Monica Singh and Anurag Mishra
- Overview: Weblog Mining, Privacy Issues and Application of Web Log Mining 638
 Amarjeet Singh Yumnam, Y. Chaitanya Sreeram and Shaik Abdul Naeem
- Personalized Web Search by Generating and Mapping Two User Profiles 642
 S. Vanitha

- A Study on Artist Similarity Using Projection Pursuit and MFCC: Identification of Gharana from Raga Performance 647
 - Kartik Mahto, Abhilash Hotta, Sandeep Singh Solanki and Soubhik Chakraborty
- A Human Emotion Recognition System Using Supervised Self-Organising Maps 654 Alka Gupta and M.L. Garg
- Advanced Encryption Standard Cryptanalysis Research 660
 Daniyal M. Alghazzawi, Syed Hamid Hasan and Mohamed Salim Trigui
- A New Authentication Protocol for RFID Communication in Multi-tag Arrangement 668
 Subhasish Dhal and Indranil Sen Gupta
- AODV-OF: An Overhearing Based Reactive Routing Protocol for Mobile Ad Hoc Networks 674 Dhirendra Kumar Sharma, Amar Nath Patra and Chiranjeev Kumar
- A Scalable Model for Implementing Cyber Security Exercises 680 Rahul Gurnani, Kaushik Pandey and Shashi Kant Rai
- Network Connectivity Maintenance of WSNs in Node Failure-Prone Environment: A Detailed Survey 685
 - Tanu Pathak, Bhawna and Virender Ranga
- Robust Image Steganography with Pixel Factor Mapping (PFM) Technique 692
 Indradip Banerjee, Souvik Bhattacharyya and Gautam Sanyal
- Model for Security in Wired and Wireless Network for Education 699
 Aditya Patel, Sweta Ghaghda and Payal Nagecha,
- Enhancing Hand Interaction Patterns for Virtual Objects in Mobile Augmented Reality Using Marker-Less Tracking 705
 Vidya, K, Deryl, R, Dinesh, K, Rajabommannan, S and Sujitha, G
- Optimization of SU's Probability of False Alarm for Dynamic Spectrum Access in Cognitive Radio 710
 Inderdeep Kaur Aulakh and Renu Vig
- layer 3 services implementation in different routers 716
 Ankur Dumka and Hardwari Lal Mandoria
- MNI-AODV: Analytical Model for attack mitigation using AODV routing in ad hoc networks 719 Umang, B V. R. Reddy and M.N. Hoda
- Illegal Access Point Detection Using Clock Skews Method in Wireless LAN 724. Swati Jadhav, S.B. Vanjale and P.B. Mane
- Computer Forensics in IT Audit and Credit Card Fraud Investigation for USB Devices 730 Saurabh Verma, Abhishek Singh, Divakar Singh and Vijay Laxmi
- Data Prevention from Unauthorized Access by Unclassified Attack in Data Warehouse 734 Gauarv Kumar, Khaleel Ahmad, Anshuman K Saurabh and M. N. Doja

- New Trends in High Speed Networking 739 S. C. Gupta
- An Architectural Framework for Encryption & Generation of Digital Signature Using DNA Cryptography 743 Deepak Singh Chouhan and R.P. Mahajan
- Overview of Information Flow Tracking Techniques Based on Taint Analysis for Android 749 Bhushan Lokhande and Sunita Dhavale
- Algorithm to Prevent Back End Database against SQL Injection Attacks* 754 Mahima Srivastava
- A Channel Wise Color Image Watermarking Scheme Based On Discrete Wavelet Transformation 758 Kaiser J. Giri, Mushtaq Ahmed Peer and P. Nagabhushan
- Self-Diagnosis Approach for Key Synchronization Problem in Symmetric Crypto Systems Used in **SCADA** 763 Pramod.T.C and N.R.Sunitha
- Two Tier protocol for Hierarchical Access Control in Medical Image Transmission 769 J. Nafeesa Begum, K. Kumar and V. Sumathy
- Target Discovery Schemes Used by an Internet Worm 776 Sudesh Yadav
- Secure Multi-Party Computation Protocol Using Asymmetric Encryption 780 Samiksha Shukla and G Sadashivappa
- Analyzing the Communication Layers in Indian E-health System 786 Shilpa Srivastava, Namrata Agarwal and Millie Pant
- Overview on Vehicular Ad Hoc Network and its Security Issues 792 Ankit kumar and Madhavi Sinha
- One-Stop: A Novel Hybrid Model for Intrusion Detection System 798 Bilal Magbool Beigh
- **Intrusion Detection and Prevention System: Challenges & Opportunities** 806 Uzair Bashir and Manzoor Chachoo
- Multidimensional Association Rule Based Data Mining Technique for Cattle Health Monitoring **Using Wireless Sensor Network 810** Ankit R. Bhavsar and Harshal A. Arolkar
- Reinforcement Learning for Adaptive Network Routing 815 Rahul Desai and B P Patil
- **Use of Query Logs for Providing Cache Support to the Search Engine 819** Pragya Kaushik, Sreesh Gaur and Mayank Singh

- Cylindrical Inhomogeneous Dielectric Magneto- Hydro-Dynamic Antenna 825
 Richa Gupta, Rajveer Yaduvanshi and Taruna Sharma
- Analysis of Distance Based Routing Protocol in VANET 829
 D. M. Nikumbh, R. D. Kharadkar, A.D. Bhoi and A.Y. Deshmukh
- Random Waypoint Mobility Model based Performance Estimation of On-Demand Routing Protocols in MANET for CBR Applications 835

Ashish K. Maurya, Dinesh Singh, Ajeet Kumar and Ritesh Maurya

- Performance Analysis of EDFA Amplifier for DWDM System 840
 Mubashir ul zaman, Shahid Iqbal and Isha
- A Case Study of Implementation and Simulation of New Protocol in NS2: The PING Protocol for MANET Environment 844
 Patel Rajankumar, Patel Nimisha and Pariza Kamboj
- Simulation and Performance Evaluation of Free Space Optic Transmission System 850
 Saurabh Dubey, Sachin Kumar and Rajesh Mishra
- Distributed Dynamic Channel Allocation Scheme in Interference-Limited Sectored Cellular Network
 Anshuman Goel, Mohd. Sheezan and Mumtaz Ahmed
- Detection of ARP Spoofing: A Command Line Execution Method 861
 Divya Sharma, Oves Khan and Nidhi Manchanda
- Load Balancing Based Channel Assignment in Multicast Wireless Mesh Network 865
 Anju Singh and Karan Singh
- Steganography and Classification of Image Steganography Techniques 870
 Sumeet Kaur, Savina Bansal and R. K. Bansal
- Design and Development of Network-Based Consumer Applications on Android 876
 Pallavi Munihanumaiah and Sarojadevi H.
- Hash Based Efficient Secure Routing for Network Communication 881
 M.P. Singh, Manisha Manjul and Manisha Yadav
- A Comparative Study and Simulation of AODV MANET Routing Protocol in NS2 & NS3 889 Patel Rajankumar, Patel Nimisha and Pariza Kamboj
- Influence of Crossover and Mutation on the Behavior of Genetic Algorithms in Mobile Ad-Hoc Networks 895

Anju Sharma and Madhavi Sinha

- Exploring Cyber Intelligence Alternatives for Countering Cyber Crime 900
 P. Usha Gayatri, Neeraja. S., Ch. Leela Poornima, K. Chandra Sekharaiah and M. Yuvaraj
- Data Encryption Framework Model with Watermark Security for Data Storage in Public Cloud Model 903

Boopathy D and M.Sundaresan

- Efficient Cryptography for Data Security 908
 Naitik Shah, Nisarg Desai and Viral Vashi
- Experimental Analysis of Digital Image Retrieval Using SVD 911
 Deepika Sharma and Pawanesh Abrol
- Underwater Sensor Network: Architectures, Challenges and Applications 915 Himanshi Bhambri and Abhishek Swaroop
- Reliable End-to-End APNs Interaction Framework 921
 Ravendra Singh, Indrani Chatterjee and Smrati
- A New Equation Based Single Rate Multicast Congestion Control 927
 Manisha Manjul and Rajesh Mishra
- Performance Evaluation of UMTS Under OSPF, EIGRP and IGRP 934
 Naresh and Anil Kumar
- Bayesian Spam Classification: Time Efficient Radix Encoded Fragmented Database Approach 939
 Nishtha Jatana and Kapil Sharma
- ARM based Real time video Streaming using XBee for Perimeter Control in Defense Application 943
 Abdul Wahid Ansari, Mannika Garg, Sushabhan Choudhury and Rajesh Singh
- Patient-Centered Mobile Apps for Chronic Disease Management 948
 Anandhi Ramachandran and Vipin Vasudev S Pai
- Fingerprint Recognition Using Gabor Filter 953
 Bindu Garg, Arjun Chaudhary, Kunal Mendiratta and Vijay Kumar
- Performance Analaysis of Mobile Wimax Technology 959
 Shabbir Ahmed
- An Online Software for Decision Tree Classification and Visualization using C4.5 Algorithm (ODTC) 962 Suvajit Das, Shashi Dahiya and Anshu Bharadwaj
- New Approach in Encryption: Magnus Kallus 966
 Vipul Srivastav
- A Review and Comprehensive Comparison of Image Denoising Techniques
 972
 Shweta Gupta and Meenakshi