

# Contents

<b>Part I Intelligent Information Retrieval and Business Intelligence</b>	
<b>RC6 Based Data Security and Attack Detection</b> . . . . .	3
Nitin Varshney and Kavindra Raghuwanshi	
<b>Application Mapping Methodology for Reconfigurable Architecture</b> . . .	11
Rahul K. Hiware and Dinesh Padole	
<b>Circular Quad-Octagon Bits: Stepwise Image Cubic Spread Authentication Analysis</b> . . . . .	17
Vijayalakshmi Kakulapati and Vijaykrishna Pentapati	
<b>Towards the Next Generation of Web of Things: A Survey on Semantic Web of Things' Framework</b> . . . . .	31
Farhat Jahan, Pranav Fruitwala and Tarjni Vyas	
<b>Performance Analysis of Dynamic Addressing Scheme with DSR, DSDV and ZRP Routing Protocols in Wireless Ad Hoc Networks</b> . . . . .	41
Nagendra Ramakrishnaiah, Pakanati Chenna Reddy and Kuncha Sahadevaiah	
<b>EncryptPost: A Framework for User Privacy on Social Networking Sites</b> . . . . .	51
Shilpi Sharma and J.S. Sodhi	
<b>Green Routing Algorithm for Wireless Networks</b> . . . . .	61
Akshay Atul Deshmukh, Mintu Jothish and K. Chandrasekaran	
<b>Decision Theoretic Rough Intuitionistic Fuzzy C-Means Algorithm</b> . . . . .	71
Sresht Agrawal and B.K. Tripathy	

**Dual Band/Wide Band Polarization Insensitive Modified Four—Legged Element Frequency Selective Surface for 2.4 GHz Bluetooth, 2.4/5.8 GHz WLAN Applications . . . . . 83**  
 Vandana Jain, Sanjeev Yadav, Bhavana Peswani, Manish Jain and Ajay Dadhich

**Dynamic Power Allocation in Wireless Routing Protocols . . . . . 91**  
 Ravi Kumar Singh and M.M. Chandane

**UWB Microstrip Antenna with Inverted Pie Shaped Slot . . . . . 99**  
 Minakshi Sharma, Hari Shankar Mewara, Mahendra Mohan Sharma, Sanjeev Yadav and Ajay Dadhech

**New Architecture and Routing Protocol for VANETs . . . . . 107**  
 V.B. Vaghela and D.J. Shah

**A Scalable Model for Big Data Analytics in Healthcare Based on Temporal and Spatial Parameters . . . . . 117**  
 S. Hemanth Chowdary, Sujoy Bhattacharya and K.V.V. Satyanarayana

**Part II Intelligent Web Mining and Knowledge Discovery Systems**

**Comparison of Different Techniques of Camera Autofocusing . . . . . 125**  
 Dippal Israni, Sandip Patel and Arpita Shah

**An Enhanced Version of Key Agreement System with User Privacy for Telecare Medicine Information Systems . . . . . 137**  
 Trupil Limbasiya and Nishant Doshi

**A Framework to Infer Webpage Relevancy for a User . . . . . 147**  
 Saniya Zahoor, Mangesh Bedekar and Varad Vishwarupe

**Comparative Study of Various Features-Mining-Based Classifiers in Different Keystroke Dynamics Datasets . . . . . 155**  
 Soumen Roy, Utpal Roy and D.D. Sinha

**A Novel Leakage Reduction Technique for Ultra-Low Power VLSI Chips . . . . . 165**  
 Vijay Kumar Magraiya, Tarun Kumar Gupta and Krishna Kant

**Techniques for Designing Analog Baseband Filter: A Review . . . . . 175**  
 Sandeep Garg and Tarun Kumar Gupta

**DAREnsemble: Decision Tree and Rule Learner Based Ensemble for Network Intrusion Detection System . . . . . 185**  
 Dwarkoba Gaikwad and Ravindra Thool

**Scalable Design of Open Source Based Dynamic Routed Network for Interconnection of Firewalls at Multiple Geographic Locations . . . . .** 195  
 Chirag Sheth and Rajesh A. Thakker

**Fault Location Estimation in HVDC Transmission Line Using ANN . . . . .** 205  
 Jenifer Mariam Johnson and Anamika Yadav

**Cellular Radiations Effect on Human Health . . . . .** 213  
 Saloni Bhatia, Sharda Vashisth and Ashok Salhan

**Micro-interaction Metrics Based Software Defect Prediction with Machine Learning, Immune Inspired and Evolutionary Classifiers: An Empirical Study . . . . .** 221  
 Arvinder Kaur and Kamadeep Kaur

**Soil Moisture Forecasting Using Ensembles of Classifiers . . . . .** 235  
 N. Rajathi and L.S. Jayashree

**Design of Smart and Intelligent Power Saving System for Indian Universities . . . . .** 245  
 Monika Lakra, Kappala Vinod Kiran and Suchismita Chinara

**Multiview Image Registration . . . . .** 255  
 Mehfuza Holia

**Part III Applications for Intelligent Systems**

**Optimization Techniques for High Performance 9T SRAM Cell Design . . . . .** 269  
 Pramod Kumar Patel, M.M. Malik and Tarun Gupta

**Comparative Analysis of Data Gathering Protocols with Multiple Mobile Elements for Wireless Sensor Network . . . . .** 281  
 Bhat Geetalaxmi Jayram and D.V. Ashoka

**Hybrid Decision Model for Weather Dependent Farm Irrigation Using Resilient Backpropagation Based Neural Network Pattern Classification and Fuzzy Logic . . . . .** 291  
 Saroj Kumar Lenka and Ambarish G. Mohapatra

**Energy-Hole Minimization in WSN Using Active Bonding and Separating Coverage . . . . .** 303  
 Chinmaya Kumar Nayak, Subhashree Rath, Manoranjan Pradhan and Satyabrata Das

<b>“Mahoshadha”, the Sinhala Tagged Corpus Based Question Answering System . . . . .</b>	313
J.A.T.K. Jayakody, T.S.K. Gamlath, W.A.N. Lasantha, K.M.K.P. Premachandra, A. Nugaliyadde and Y. Mallawarachchi	
<b>Trust Appraisal Based Neighbour Defense Secure Routing to Mitigate Various Attacks in Most Vulnerable Wireless Ad hoc Network . . . . .</b>	323
Tada Naren, Patalia Tejas and Patel Chirag	
<b>Behavior of Adhoc Routing Protocols for H-MANETs . . . . .</b>	333
Mitul Yadav, Vinay Rishiwal, Omkar Singh and Mano Yadav	
<b>Mathematical Treatment of ABC Framework for Requirements Prioritization . . . . .</b>	341
Sita Devulapalli, O.R.S. Rao and Akhil Khare	
<b>Reduction of Micro Aneurysms in Retinal Identification Based on Hierarchical Clustering in Terms of Improved Circular Gabo Filter . . . . .</b>	349
G. Srinivasa Rao and Y. Srinivasa Rao	
<b>Part IV Applications of ICT in Rural and Urban Areas</b>	
<b>A Modified Representation of IFSS and Its Usage in GDM . . . . .</b>	365
B.K. Tripathy, R.K. Mohanty, T.R. Sooraj and A. Tripathy	
<b>A State of Art Survey on Shilling Attack in Collaborative Filtering Based Recommendation System . . . . .</b>	377
Krupa Patel, Amit Thakkar, Chandni Shah and Kamlesh Makvana	
<b>Labeling of Quadratic Residue Digraphs Over Finite Field . . . . .</b>	387
R. Parameswari and R. Rajeswari	
<b>Comparative Performance Study of Various Content Based Image Retrieval Methods . . . . .</b>	397
Rushabh Shah, Jeetendra Vaghela, Khyati Surve, Rutvi Shah, Priyanka Sharma, Rasendu Mishra, Ajay Patel and Rajan Datt	
<b>GIS and Statistical Approach to Assess the Groundwater Quality of Nanded Tehsil, (M.S.) India . . . . .</b>	409
Wagh Vasant, Panaskar Dipak, Muley Aniket, Pawar Ranjitsinh, Mukate Shrikant, Darkunde Nitin, Aamalawar Manesh and Varade Abhay	
<b>Observation of AODV Routing Protocol’s Performance at Variation in ART Value for Various Node’s Mobility . . . . .</b>	419
Sachin Kumar Gupta and R.K. Saket	

**PCA Based Optimal ANN Classifiers for Human Activity Recognition Using Mobile Sensors Data** . . . . . 429  
 Kishor H. Walse, Rajiv V. Dharaskar and Vilas M. Thakare

**Higher Order Oriented Feature Descriptor for Supporting CAD System in Retrieving Similar Medical Images Using Region Based Features** . . . . . 437  
 B. Jyothi, Y. MadhaveeLatha, P.G. Krishna Mohan and V. Shiva Kumar Reddy

**Enhancing Fuzzy Based Text Summarization Technique Using Genetic Approach** . . . . . 447  
 R. Pallavi Reddy and Kalyani Nara

**Application of Rule Based and Expert Systems in Various Manufacturing Processes—A Review** . . . . . 459  
 M.R. Bhatt and S. Buch

**Reinforcement Learning with Neural Networks: A Survey** . . . . . 467  
 Bhumika Modi and H.B. Jethva

**Part V ICT for Information Sciences**

**Automatic Metadata Harvesting from Digital Content Using NLP** . . . . . 479  
 Rushabh D. Doshi, Chintan B. Sidpara and Kunal U. Khimani

**Gradient Descent with Momentum Based Backpropagation Neural Network for Selection of Industrial Robot** . . . . . 487  
 Sasmita Nayak, B.B. Choudhury and Saroj Kumar Lenka

**Network Security Analyzer: Detection and Prevention of Web Attacks** . . . . . 497  
 Nilakshi Jain, Shwetambari Pawar and Dhananjay Kalbande

**Diagnosis of Glaucoma Using Cup to Disc Ratio in Stratus OCT Retinal Images** . . . . . 507  
 Kinjan Chauhan and Ravi Gulati

**Improvement Power System Stability Using Different Controller in SMIB System** . . . . . 517  
 Ruchi Sharma, Mahendra Kumar and Kota Solomon Raju

**Secured Data Storage and Computation Technique for Effective Utilization of Servers in Cloud Computing** . . . . . 531  
 Manoj Tyagi and Manish Manoria

**Review of Security and Privacy Techniques in Cloud Computing Environment** . . . . . 543  
 Rutuja Mote, Ambika Pawar and Ajay Dani

**Detection of Bundle Branch Block Using Bat Algorithm and Levenberg Marquardt Neural Network . . . . . 553**  
Padmavathi Kora and K. Sri Rama Krishna

**Bot Detection and Botnet Tracking in Honeynet Context . . . . . 563**  
Saurabh Chamotra, Rakesh Kumar Sehgal and Sanjeev Ror

**An Approximation of Forces and Tooling Configuration During Metal Forming Process Using Artificial Intelligence Technique . . . . . 575**  
M.R. Bhatt and S. Buch

**Matchmaking of Web Services Using Finite State Automata . . . . . 585**  
Sujata Swain and Rajdeep Niyogi

**Partial Satisfaction of User Requests in Context Aware Settings . . . . . 595**  
Sujata Swain and Rajdeep Niyogi



<http://www.springer.com/978-3-319-30932-3>

Proceedings of First International Conference on  
Information and Communication Technology for  
Intelligent Systems: Volume 1

Satapathy, S.C.; Das, S. (Eds.)

2016, XVI, 602 p. 258 illus., Hardcover

ISBN: 978-3-319-30932-3