

# Contents

<b>A Survey of Security Concerns in Various Data Aggregation Techniques in Wireless Sensor Networks . . . . .</b>	<b>1</b>
Mukesh Kumar and Kamlesh Dutta	
<b>Secure and Dynamic IP Address Configuration Scheme in MANET . . . . .</b>	<b>17</b>
Poulami Choudhury, Koushik Majumder and Debashis De	
<b>A Novel Distributed Dynamic IP Configuration Scheme for MANET . . . . .</b>	<b>25</b>
Pritam Bag, Koushik Majumder and Debashis De	
<b>Dual Security Against Grayhole Attack in MANETs. . . . .</b>	<b>33</b>
Ankit D. Patel and Kartik Chawda	
<b>I-EDRI Scheme to Mitigate Grayhole Attack in MANETs . . . . .</b>	<b>39</b>
Ankit D. Patel, Rutvij H. Jhaveri and Shaishav N. Shah	
<b>Frequency Domain Incremental Strategies Over Distributed Network . . . . .</b>	<b>45</b>
Siba Prasad Mishra and Ajit Kumar Sahoo	
<b>Modeling and Analysis of Cross-Layer Uplink Scheduler in IEEE 802.16e Standard . . . . .</b>	<b>53</b>
M. Vijayalaxmi, Swaroop R. Puranik and Lingangouda Kulkarni	
<b>A Probabilistic Packet Filtering-Based Approach for Distributed Denial of Service Attack in Wireless Sensor Network . . . . .</b>	<b>65</b>
Sonali Swetapadma Sahu and Manjusha Pandey	

<b>Location-Based Coordinated Routing Protocol for Wireless Sensor and Actor Networks . . . . .</b>	<b>71</b>
Biswa Mohan Acharya and S.V. Rao	
<b>Energy Saving Performance Analysis of Hierarchical Data Aggregation Protocols Used in Wireless Sensor Network . . . . .</b>	<b>79</b>
Bhagwat Prasad Chaudhury and Ajit Kumar Nayak	
<b>Performance Analysis of IEEE 802.11 DCF and IEEE 802.11e EDCF Under Same Type of Traffic . . . . .</b>	<b>91</b>
Rameswari Biswal and D. Seth	
<b>A Distributed Prime Node-ID Connected Dominating Set for Target Coverage Using Adjustable Sensing Range . . . . .</b>	<b>99</b>
Anita Chandra, Nachiketa Tarasia, Amulya Ratan Swain and Manish Kumar	
<b>Token Based Group Local Mutual Exclusion Algorithm in MANETs . . . . .</b>	<b>105</b>
Ashish Khanna, Awadhesh Kumar Singh and Abhishek Swaroop	
<b>A Distributed Secured Localization Scheme for Wireless Sensor Networks . . . . .</b>	<b>115</b>
Lakshmana Phaneendra Maguluri, Shaik Mahaboob Basha, S. Ramesh and Md Amanatulla	
<b>Characteristic Function for Variable-Bit-Rate Multimedia QoS . . . . .</b>	<b>121</b>
Neela Rakesh and Hemanta Kumar Pati	
<b>A Fully Simulatable Oblivious Transfer Scheme Using Vector Decomposition . . . . .</b>	<b>131</b>
Manoj Kumar and I. Praveen	
<b>Query by Humming System Through Multiscale Music Entropy . . . . .</b>	<b>139</b>
Trisiladevi C. Nagavi and Nagappa U. Bhajantri	
<b>An Empirical Analysis of Training Algorithms of Neural Networks: A Case Study of EEG Signal Classification Using Java Framework . . . . .</b>	<b>151</b>
Sandeep Kumar Satapathy, Alok Kumar Jagadev and Satchidananda Dehuri	

<b>Relating Perceptual Feature Space and Context Drift Information in Query by Humming System . . . . .</b>	161
Trisiladevi C. Nagavi and Nagappa U. Bhajantri	
<b>First-Fit Semi-partitioned Scheduling Based on Rate Monotonic Algorithm . . . . .</b>	173
Saeed Senobary and Mahmoud Naghibzadeh	
<b>A Novel Approach for Data Hiding in Color Images Using LSB Based Steganography with Improved Capacity and Resistance to Statistical Attacks . . . . .</b>	183
Savita Badhan and Mamta Juneja	
<b>A Comparative Study of Correlation Based Stereo Matching Algorithms: Illumination and Exposure . . . . .</b>	191
N.S. Bindu and H.S. Sheshadri	
<b>A Hybrid Motion Based-Object Tracking Algorithm for VTS. . . . .</b>	203
Prasenjit Das and Nirmalya Kar	
<b>Side Lobe Level and Null Control Design of Linear Antenna Array Using Taguchi's Method . . . . .</b>	211
Rakesh Kumar, Saumendra Ku. Mohanty and B.B. Mangaraj	
<b>A Novel Approach for Jamming and Tracking of Mobile Objects . . . . .</b>	217
Aradhana Misra, Nirmal Kumar Rout and Kaustav Dash	
<b>Performance Analysis of Low-Complexity Multiuser STBC MC-CDMA System . . . . .</b>	223
Sadananda Behera and Sarat Kumar Patra	
<b>On the Design an Enhanced Bandwidth of Elliptical Shape CPW-Fed Fractal Monopole Antenna for UWB Application . . . . .</b>	229
Satyabrata Maiti, Naikatmana Pani, Thiyam Romila Devi and Amlan Datta	
<b>Design of Microstrip Branch Line Coupler Phase Shifter in L-Band . . . . .</b>	237
Thiyam Romila Devi, Satyabrata Maiti, Abhishek Jena and Amlan Datta	

<b>Capturing Node Resource Status and Classifying Workload for Map Reduce Resource Aware Scheduler. . . . .</b>	<b>247</b>
Ravi G. Mude, Annappa Betta and Akashdeep Debbarma	
<b>Grid Computing-Based Performance Analysis of Power System: A Graph Theoretic Approach . . . . .</b>	<b>259</b>
Himansu Das, A.K. Jena, P.K. Rath, B. Muduli and S.R. Das	
<b>Investigation on Power Saving Mechanism for IEEE 802.16m Networks in Mobile Internet Traffic. . . . .</b>	<b>267</b>
A. Rajesh and R. Nakkeeran	
<b>Hybrid Edge Detection-Based Image Steganography Technique for Color Images . . . . .</b>	<b>277</b>
Deepali Singla and Mamta Juneja	
<b>Haze Removal: An Approach Based on Saturation Component . . . . .</b>	<b>281</b>
Khitish Kumar Gadnaya, Pankajini Panda and Niranjana Panda	
<b>Biomedical Image Registration Using Genetic Algorithm . . . . .</b>	<b>289</b>
Suraj Panda, Shubhendu Kumar Sarangi and Archana Sarangi	
<b>Bi-dimensional Statistical Empirical Mode Decomposition-Based Video Analysis for Detecting Colon Polyps Using Composite Similarity Measure. . . . .</b>	<b>297</b>
Mainak Biswas and Debangshu Dey	
<b>A Wavelet-Based Text-Hiding Method Using Novel Mapping Technique. . . . .</b>	<b>309</b>
Tanusree Podder, Abhishek Majumdar, Lalita Kumari and Arpita Biswas	
<b>Unsupervised Segmentation of Satellite Images Based on Neural Network and Genetic Algorithm . . . . .</b>	<b>319</b>
P. Ganesan, V. Rajini, B.S. Sathish and V. Kalist	
<b>Comparative Analysis of Cuckoo Search Optimization-Based Multilevel Image Thresholding . . . . .</b>	<b>327</b>
Sourya Roy, Utkarsh Kumar, Debayan Chakraborty, Sayak Nag, Arijit Mallick and Souradeep Dutta	

<b>An Intelligent Method for Moving Object Detection . . . . .</b>	<b>343</b>
Mihir Narayan Mohanty and Subhashree Rout	
<b>Prediction of Monthly Rainfall in Tamilnadu Using MSARIMA Models . . . . .</b>	<b>353</b>
S. Meenakshi Sundaram and M. Lakshmi	
<b>An Ontology-Based Approach for Test Case Reuse. . . . .</b>	<b>361</b>
Satish Dalal, Sandeep Kumar and Niyati Baliyan	
<b>A Decision-Driven Computer Forensic Classification Using ID3 Algorithm. . . . .</b>	<b>367</b>
Suneeta Satpathy, Sateesh K. Pradhan and B.N.B. Ray	
<b>Non-ideal Iris Segmentation Using Wavelet-Based Anisotropic Diffusion. . . . .</b>	<b>377</b>
Chinmay Singh, Madhusmita Sahoo and Bibhu Prasad Mohanty	
<b>Detection of Video Objects in Dynamic Scene Using Local Binary Pattern Subtraction Method. . . . .</b>	<b>385</b>
Prashant Kumar, Deepak K. Rout, Abhishek Kumar, Mohit Verma and Deepak Kumar	
<b>Automatic Lane Detection in NH5 of Odisha . . . . .</b>	<b>393</b>
P. Kanungo, S.K. Mishra, S. Mahapatra, U.R. Sahoo, U. S. Kr. Sah and V. Taunk	
<b>Mammogram Image Segmentation Using Hybridization of Fuzzy Clustering and Optimization Algorithms . . . . .</b>	<b>403</b>
Guru Kalyan Kanungo, Nalini Singh, Judhisthir Dash and Annapurna Mishra	
<b>A New ICA-Based Algorithm for Diagnosis of Coronary Artery Disease. . . . .</b>	<b>415</b>
Zahra Mahmoodabadi and Saeed Shaerbafe Tabrizi	
<b>Static Hand Gesture Recognition Based on Fusion of Moments. . . . .</b>	<b>429</b>
Subhamoy Chatterjee, Dipak Kumar Ghosh and Samit Ari	
<b>Real-Time Human Face Detection in Noisy Images Based on Skin Color Fusion Model and Eye Detection . . . . .</b>	<b>435</b>
Reza Azad, Eslam Ahmadzadeh and Babak Azad	

<b>Investigation of Full-Reference Image Quality Assessment . . . . .</b>	<b>449</b>
Dibyasundar Das and Ajit Kumar Nayak	
<b>Image Compression Using Edge-Enhancing Diffusion . . . . .</b>	<b>457</b>
Lipsa Behera, Bibhuprasad Mohanty and Madhusmita Sahoo	
<b>Comparative Analysis of Edge Detection Techniques for Extracting Blood Vessels in Diabetic Retinopathy . . . . .</b>	<b>465</b>
Sunita Sarangi, Arpita Mohapatra and Sukanta Kumar Sabut	
<b>Realization of Different Algorithms Using Raspberry Pi for Real-Time Image Processing Application . . . . .</b>	<b>473</b>
Mrutyunjaya Sahani and Mihir Narayan Mohanty	
<b>Edge Preserving Region Growing for Aerial Color Image Segmentation . . . . .</b>	<b>481</b>
Badri Narayan Subudhi, Ishan Patwa, Ashish Ghosh and Sung-Bae Cho	
<b>ILSB: Indicator-Based LSB Steganography . . . . .</b>	<b>489</b>
Prasenjit Das and Nirmalya Kar	
<b>Odia Running Text Recognition Using Moment-Based Feature Extraction and Mean Distance Classification Technique . . . . .</b>	<b>497</b>
Mamata Nayak and Ajit Kumar Nayak	
<b>Keyword Extraction from Hindi Documents Using Statistical Approach . . . . .</b>	<b>507</b>
Aditi Sharan, Sifatullah Siddiqi and Jagendra Singh	
<b>Development of Odia Language Corpus from Modern News Paper Texts: Some Problems and Issues . . . . .</b>	<b>515</b>
Bishwa Ranjan Das, Srikanta Patnaik and Niladri Sekhar Dash	
<b>A Rule-Based Concatenative Approach to Speech Synthesis in Indian Language Text-to-Speech Systems . . . . .</b>	<b>523</b>
Soumya Priyadarsini Panda and Ajit Kumar Nayak	
<b>Author Index . . . . .</b>	<b>533</b>

Intelligent Computing, Communication and Devices

Proceedings of ICCD 2014, Volume 2

Jain, L.C.; Patnaik, S.; Ichalkaranje, N. (Eds.)

2015, XX, 535 p. 249 illus., Softcover

ISBN: 978-81-322-2008-4