

Contents

Neutrosophic Logic Applied to Decision Making.	1
Henrik Madsen, Grigore Albeanu, Bernard Burtschy and Florin Popentiu-Vladicescu	
Transforming e-Government to Smart Government: A South Australian Perspective	9
Akhilesh Harsh and Nikhil Ichalkaranje	
An Online Content Syndication Tool with Built-in Search and Social Sharing	17
Zijie Tang and Kun Ma	
Customizing EPCglobal to Fit Local ONS Requirements	21
Shiju Sathyadevan, C.A. Akhila and M.K. Jinesh	
Distributed CloudIMS: Future-Generation Network with Internet of Thing Based on Distributed Cloud Computing	31
Hamid Allouch and Mostafa Belkasmi	
Genetic Algorithm-Based Query Expansion for Improved Information Retrieval	47
Pragati Bhatnagar and Narendra Pareek	
Genetic Algorithm-Based Adaptive PID Controller.	57
Shradhanand Verma and Rajani K. Mudi	
Text Mining for Phishing E-mail Detection	65
Masoumeh Zareapoor and K.R. Seeja	

A Multi-objective Cat Swarm Optimization Algorithm for Workflow Scheduling in Cloud Computing Environment.	73
Saurabh Bilgaiyan, Santwana Sagnika and Madhabananda Das	
A Case Study of User Behavior in Information Retrieval	85
Venkata Udaya Sameer and Rakesh Chandra Balabantaray	
Fuzzy Mapping of Robotic Arm Based on LabVIEW	95
Prasad Kulkarni and S.L. Patil	
An Improvement on NSGA-II for Finding Fast the Better Optimal Solution in Multi-objective Optimization Problem	105
Praloy Shankar De and B.S.P. Mishra	
Test Case Creation from UML Sequence Diagram: A Soft Computing Approach	117
Ajay Kumar Jena, Santosh Kumar Swain and Durga Prasad Mohapatra	
Solving Nonlinear Constrained Optimization Problems Using Invasive Weed Optimization.	127
Y. Ramu Naidu and A.K. Ojha	
ESEC: An Ideal Secret Sharing Scheme.	135
Greeshma Sarath, S. Deepu, Sudharsan Sundararajan and Krishnashree Achuthan	
Extended Service Registry to Support I/O Parameter-Based Service Search.	145
H.N. Lakshmi and Hrushikesha Mohanty	
Realizing New Hybrid Rough Fuzzy Association Rule Mining Algorithm Over Apriori Algorithm	157
Aritra Roy and Rajdeep Chatterjee	
Modal Analysis of Hand-Arm Vibration (Humerus Bone) for Biodynamic Response Using Varying Boundary Conditions Based on FEA	169
Ashwani Kumar, Deepak Prasad Mangain, Himanshu Jaiswal and Pravin P. Patil	
Preserving Privacy in Healthcare Web Services Paradigm Through Hippocratic Databases.	177
Rekha Bhatia and Manpreet Singh	

Generation of Array Passwords Using Petri Net for Effective Network and Information Security	189
S. Vaithyasubramanian, A. Christy and D. Lalitha	
Application of Genetic Algorithm for Component Optimization to Deploy Geoprocessing Web	201
Sujit Kumar Behera, Lalit Kumar Behera, Payodhar Padhi and Maya Nayak	
DNA-Based Cryptographic Approach Toward Information Security	209
Abhishek Majumdar, Tanusree Podder, Atanu Majumder, Nirmalya Kar and Meenakshi Sharma	
Design a Fuzzy Logic Controller with a Non-fuzzy Tuning Scheme for Swing up and Stabilization of Inverted Pendulum	221
A.K. Pal and J. Chakrabarty	
Use of Machine Learning Algorithms with SIEM for Attack Prediction.	231
E.T. Anumol	
Performance Comparison of Single-Layer Perceptron and FLANN-Based Structure for Isolated Digit Recognition	237
Aryapriyanka Samal, Jagyanseni Panda and Niva Das	
Computational Techniques for Predicting Cyber Threats	247
Ekta Gandotra, Divya Bansal and Sanjeev Sofat	
Multi-objective Discrete Artificial Bee Colony Based Phasor Measurement Unit Placement for Complete and Incomplete Observability Analysis.	255
K. Mahapatra, M.R. Nayak and P.K. Rout	
Modified Ant Colony Optimization Algorithm (MAnt-Miner) for Classification Rule Mining	267
Sarbeswara Hota, Pranati Satapathy and Alok Kumar Jagadev	
An Intelligent Method to Test Feasibility Predicate for Robotic Assembly Sequence Generation	277
M.V.A. Raju Bahubalendruni and B.B. Biswal	

A Probabilistic Method Toward SLAM for Mobile Robotic Systems	285
R.S. Anoop, T. Gireeshkumar and G. Saisuriyaa	
A Brief Survey on Concept Drift	293
V. Akila and G. Zayaraz	
Live Virtual Machine Migration Techniques—A Technical Survey . . .	303
T.Y.J. Naga Malleswari, G. Vadivu and D. Malathi	
A Design Phase Understandability Metric Based on Coupling and Cohesion for Object-Oriented Systems	321
Nikita Singh and Aprna Tripathi	
Web Service Response Time Prediction Using HMM and Bayesian Network.	327
Vani Vathsala Atluri and Hrushikesha Mohanty	
A Multi-agent-Based Framework for Cloud Service Description and Discovery Using Ontology	337
Manoranjan Parhi, Binod Kumar Pattanayak and Manas Ranjan Patra	
Enhancing Security in Cloud Computing Using Bi-directional DNA Encryption Algorithm.	349
Ashish Prajapati and Amit Rathod	
Service Composition Using Efficient Multi-agents in Cloud Computing Environment	357
Abhijit Bastia, Manoranjan Parhi, B.K. Pattanayak and M.R. Patra	
Comparative Study of DE and PSO over Document Summarization	371
Rasmita Rautray and Rakesh Chandra Balabantaray	
Medical Image Thresholding Using Particle Swarm Optimization	379
Debashis Mishra, Isita Bose, Utpal Chandra De and Madhabananda Das	
Criteria for Databases in Cloud Computing Environment	385
Sarada Prasanna Pati and Prasant Kumar Pattnaik	
Measuring Web Site Usability Quality Complexity Metrics for Navigability.	393
Sandeep Kumar Panda, Santosh Kumar Swain and Rajib Mall	

Personalized Web Page Recommendation Using a Graph-Based Approach to Implicitly Find Influential Users.	403
Ashish Nanda, Rohit Omanwar and Bharat Deshpande	
Ensuring Data Security and Performance Evaluation in Cloud Computing	415
Pourya Shamsolmoali and M. Afshar Alam	
Context-Aware Computing Using Rich Contexts for Pervasive Environment	425
P. Rajasekaran, N. Prabakaran and V. Magudeeswaran	
Financial Trading System Using Combination of Textual and Numeric Data.	433
Jibendu Kumar Mantri and Braja B. Nayak	
A Novel Trust-Based Privacy Preserving Access Control Framework in Web Services Paradigm	441
Rekha Bhatia and Manpreet Singh	
A Novel Low-Power Domino Logic Technique Providing Static Output in Evaluation Phase for High Frequency Changing Inputs . . .	455
Sumit Sharma and Kamal Kant Kashyap	
The Impact of Gate Underlap on Analog and RF Performance of Hetero-Junction FET.	465
Rohit Jana and Angsuman Sarkar	
Low-Power, High-Speed, Indirect Frequency-Compensated OPAMP with Class AB Output Stage in 180-nm CMOS Process Technology	471
Subhrajyoti Das, Sushanta K. Mandal, Adyasha Rath and Sweta Padma Dash	
An Analytical Surface Potential Model of Surrounding Gate Tunnel FET	479
Soumen Paul and Angsuman Sarkar	
Design and Characterization of Ka-Band Reflection-Type IMPATT Amplifier	487
L.P. Mishra and M. Mitra	

Energy Transfer to Piezoelectric Component Through Magnetic Resonant Coupling	493
P.P. Nayak, D.P. Kar, S.N. Das and S. Bhuyan	
Interface Study of Individual and Stacked High-k/P-Si MOSCAPs by CV Technique	499
Milan Maitri Mishra, Gayatri Pradhan, Farida Ashraf Ali and Gouranga Bose	
Mesh-Type Split-Ring Resonator as Parasitic Radiator for SAR Reduction in Mobile Handset	509
Sarada Prasan Rout and Amlan Datta	
On-Chip Improved Single Clock Swing Enhanced Charge Pump Circuit	519
Nikhil Deo, Rahul Roushan and Rohit Kumar Sah	
Material-Based Vibration Characteristic Analysis of Heavy Vehicle Transmission Gearbox Casing Using Finite Element Analysis	527
Ashwani Kumar, Arpit Dwivedi, Himanshu Jaiswal and Pravin P. Patil	
Ultra high-Speed InAlAs/InGaAs High Electron Mobility Transistor	535
Meryleen Mohapatra, Nutan Shukla and A.K. Panda	
Design and Simulation of CNTFET by Varying the Position of Vacancy Defect in Channel	545
Shreekant and Sudhanshu Choudhary	
Performance Evaluation of InGaP/GaAs Solar Cell with Double Layer ARC	553
Praveen Priyaranjan Nayak, Jyoti Prakash Dutta and Guru Prasad Mishra	
Time-Delay Approximation: Its Influence on the Structure and Performance of the IMC-PI/PID Controller	561
P.V. Gopi Krishna Rao, M.V. Subramanyam and K. Satyaprasad	
A Study on Nonlinear Classifier-Based Moving Object Tracking.	571
Ajoy Mondal, Badri Narayan Subudhi, Moumita Roy, Susmita Ghosh and Ashish Ghosh	

Comparative Study of PCM, LPC, and CELP Speech Coders Used for VoIP Applications	579
Mahesh Chandra and Manas Ray	
Sound- and Touch-Based Smart Cane: Better Walking Experience for Visually Challenged	589
Rajesh Kannan Megalingam, Aparna Nambissan, Anu Thambi, Anjali Gopinath and K. Megha	
Efficient VLSI Implementation of CORDIC-Based Direct Digital Synthesizer	597
N. Prasad, Manas Ranjan Tripathy, Ansuman DiptiSankar Das, Nihar Ranjan Behera and Ayaskanta Swain	
A Novel Method for MP3 Steganalysis	605
Rinu Kuriakose and P. Premalatha	
Using Orthographic Transcripts for Stuttering Dysfluency Recognition and Severity Estimation	613
P. Mahesha and D.S. Vinod	
Combining Cepstral and Prosodic Features for Classification of Disfluencies in Stuttered Speech.	623
P. Mahesha and D.S. Vinod	
Development of Magnetic Control System for Electric Wheel Chair Using Tongue	635
G. Hari Krishnan, R.J. Hemalatha, G. Umashankar, Nilofer Ahmed and Soumya Ranjan Nayak	
An Autonomous Obstacle Avoiding and Target Recognition Robotic System Using Kinect.	643
Anoop Velayudhan and T. Gireeshkumar	
Navigation Based on Adaptive Shuffled Frog-Leaping Algorithm for Underwater Mobile Robot	651
Kundu Shubhasri and Dayal R. Parhi	
Power Efficiency with Localization for Tracking and Scrutinizing the Aquatic Sensory Nodes	661
Pushpendra R. Verma, D.P. Singh and R.H. Goudar	

Off-line Handwritten Script Identification from Eastern Indian Document Images Using Logistic Model Tree	675
Sk Md Obaidullah, Nibaran Das and Kaushik Roy	
Segmentation and Comparison of Water Resources in Satellite Images Using Fuzzy-Based Approach	685
P. Ganesan, V. Rajini, B.S. Sathish and Khamar Basha Shaik	
Comparison between ANN-Based Heart Stroke Classifiers Using Varied Folds Data Set Cross-Validation	693
H.S. Niranjana Murthy and M. Meenakshi	
A Novel Approach for DDoS Mitigation with Router	701
S. Deepthi, K.S.S. Hemanth, Rajesh Duvvuru and M. Kalyani	
Enhancing Battery Lifetime of Wireless Heterogeneous and Ad hoc NW	709
Debashree Nayak, Saumendra Kumar Mohanty and Amiya B. Sahoo	
Analyzing the Interaction Between TCP Variants and Routing Protocols in Static Multi-hop Ad hoc Network	717
Sukant Kishoro Bisoy and Prasant Kumar Pattnaik	
Capacity Estimation for Cellular LTE Using AMR Codec with Semi-persistent Scheduling	725
Ajay Pratap and Hemanta Kumar Pati	
Development of a Nonintrusive Driver Drowsiness Monitoring System	737
M. Harisanker and R. Shanmugha Sundaram	
Wearable Medical Devices in Preventive Health Care: Cuffless Blood Pressure Measurement	745
Rajesh Kannan Megalingam, Ushma Unnikrishnan, Athira Subash, Goutham Pocklassery, Athul Asokan Thulasi, Galla Mourya and Vivek Jayakrishnan	
Analysis of Voice for Parkinson's Disease Persons Using Dynamic Time Warping Technique	753
Vikas and R.K. Sharma	
A Dynamic Model for FECG Synthesis and Preprocessing: A Signal Processing Approach	761
S. Ravindrakumar and K. Bommanna Raja	

Providing Mother and Child Care Telemedicine Through Interactive Voice Response	771
R. Subhashini, R. Sethuraman and V. Milani	
Wheeled Patient Monitoring System	779
Rajesh Kannan Megalingam, Pranav Sreedharan Veliyara, Raghavendra Murali Prabhu, Rithun Raj Krishna and Rocky Katoch	
Analysis of Medical X-ray Bone Images Using Image Segmentation	787
Shweta Jena, Barnali Sahu and Alok Kumar Jagadev	
Image Change Detection Using Particle Swarm Optimization	795
Santwana Sagnika, Saurabh Bilgaiyan and Bhabani Shankar Prasad Mishra	
Efficient Microarray Data Classification with Three-Stage Dimensionality Reduction	805
Rasmita Dash, B.B. Misra, Satchidananda Dehuri and Sung-Bae Cho	
Trends in Citation Analysis	813
G. Parthasarathy and D.C. Tomar	
Author Index	823

Intelligent Computing, Communication and Devices

Proceedings of ICCD 2014, Volume 1

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

2015, XXII, 825 p. 399 illus., Softcover

ISBN: 978-81-322-2011-4