

SocProS 2015
3-DAY INTERNATIONAL CONFERENCE ON SOFT COMPUTING FOR PROBLEM SOLVING
 December 18 - 20, 2015
 Saharanpur Campus of IIT Roorkee
FINAL SCHEDULE OF PAPER PRESENTATIONS

December 18, 2015					
9 - 10	Registration				
10 – 11	Inauguration				
11-11.30	Tea				
11.30-1.00	KEYNOTE TALK - I KEY NOTE SPEAKER - Prof. Andries P Engelbrecht, University of Pretoria, SOUTH AFRICA TITLE OF THE TALK - HETEROGENEOUS PARTICLE SWARM OPTIMIZATION ALGORITHMS				
1 - 2.30	Lunch				
2.30- 4.00	Track 1 Venue – LH 1 paper id 109 110 127 138 221 343	Track 2 Venue – LH2 paper id 208 227 232 305 306 301	Track 3 Venue – LH3 paper id 22 159 289 332 338 74	Track 4 Venue CR1 paper id 19 191 223 224 313 315 172	Track 5 Venue CR 2 paper id 11 233 264 278 319 322
4.00 – 4.15	Tea				
4.15 – 5.45	Track 6 Venue – LH 1 paper id 98 174 258 266 345	Track 7 Venue – LH2 paper id 228 329 334 335 341	Track 8 Venue – LH3 paper id 6 25 150 156 164 259	Track 9 Venue CR1 paper id 47 94 114 142 212 222	Track 10 Venue CR 2 paper id 9 26 75 135 210 234
8.00 – 9.00	Dinner				
December 19, 2015					
9 - 10.30	Track 11 Venue – LH 1 paper id 5 89 108 162 231 339	Track 12 Venue – LH2 paper id 40 42 69 84 153 160 161 175 250	Track 13 Venue – LH3 paper id 137 147 152 280 308	Track 14 Venue CR1 paper id 88 220 350 342 82	Track 15 Venue CR 2 paper id 124 125 180 194 145
10.30 – 11.00	Tea				

11-12.30	<p style="text-align: center;">Keynote Talk - II KEY NOTE SPEAKER - Prof. Efren Mezura, University of Veracruz, Mexico TITLE OF THE TALK - COMPUTATIONAL INTELLIGENCE AND LEARNING APPLIED TO SOLVE PROBLEMS IN ENGINEERING AND MEDICINE</p>				
12.30 - 2	Lunch				
2.00 – 3.30	<p style="text-align: center;">Keynote Talk - III KEY NOTE SPEAKER - Prof. Lipo Wang, National Technical University, Singapore TITLE OF THE TALK - IMAGE SEARCH AND RETRIEVAL USING SUPPORT VECTOR MACHINES</p>				
3.30 - 4	Tea				
4 - 5.30	Track 16 Venue – LH 1 paper id 154 169 211 216 270 320	Track 17 Venue – LH2 paper id 155 291 304 307 330 337	Track 18 Venue – LH3 paper id 62 104 129 136 206 297	Track 19 Venue CR1 paper id 36 302 303 326 327 83	Track 20 Venue CR 2 paper id 48 230 255 277 317 112
6.00 – 8.00	Cultural evening				
8.00 – 10.00	Dinner				
December 20, 2015					
9 - 10.30	Track 21 Venue – LH 1 paper id 298 300 318 321 43	Track 22 Venue – LH2 paper id 17 202 207 346 347	Track 23 Venue – LH3 paper id 24 31 35 65 93 105	Track 24 Venue CR1 paper id 49 158 239 312 333	Track 25 Venue CR 2 paper id 4 213 235 348 349
10.30-11	Tea				
11-12.30	Track 26 Venue – LH 1 paper id 205 249 251 260 265 276 281	Track 27 Venue – LH2 paper id 01 27 167 196 214 215	Track 28 Venue – LH3 paper id 67 85 183 184 199 241	Track 29 Venue CR1 paper id 15 16 44 57 182 244	Track 30 Venue CR 2 paper id 72 91 92 262 271 284 286 294
12.30-1.30	Valedictory & Prize Distribution				
1.30-2.30	Lunch				

Best PhD Presentations will be held on December 19, 2015 in the Seminar Hall during 4.00 – 5.30

RESOURCE PERSONS (Key note speakers)

1. **Prof. Andries P Engelbrecht -
University of Pretoria, SOUTH AFRICA
TITLE OF THE TALK - HETEROGENEOUS PARTICLE SWARM OPTIMIZATION ALGORITHMS**

2. **Prof. Efren Mezura,
University of Veracruz, Mexico
TITLE OF THE TALK - COMPUTATIONAL INTELLIGENCE AND LEARNING APPLIED TO SOLVE PROBLEMS IN
ENGINEERING AND MEDICINE**

3. **Prof. Lipo Wang,
National Technical University, Singapore
TITLE OF THE TALK - IMAGE SEARCH AND RETRIEVAL USING SUPPORT VECTOR MACHINES**

DETAILED TIME TABLE

T1

Paper ID	Authors' Names	Paper Title
109	Tarun Kumar Sharma and Millie Pant	Improved Local Search in Shuffled Frog Leaping Algorithm
110	Jitendra Rajpurohit, Tarun Kumar Sharma and Atulya K. Nagar	Shuffled Frog Leaping Algorithm with Adaptive Exploration
127	Arnapurna Panda and Sabyasachi Pani	Multiobjective Colliding Bodies Optimization
138	Suvasis Nayak and Akshay Ojha	An approach to solve multi-objective linear fractional programming problem
221	Ezhilmaran D and Adhiyaman M	Invariant feature extraction for finger vein matching using fuzzy logic inference
343	Tarun Kumar Sharma and Vaishali Yadav	Asynchronous Differential Evolution with Convex Mutation

T2

Paper ID	Authors' Names	Paper Title
112	Vijay Kumar, Hari Arora, Kiran Pal and Sarika Jain	Trapezoidal Fuzzy Prioritized Weighted Geometric Operator: An Algorithm based Case study for the Selection of Suitable Treatment for Lung Cancer Under Intuitionistic Fuzzy Information Environment
208	Nitish Katal and Dr. Shiv Narayan	Multi-Objective Optimization based Design of Robust Fractional Order PI λ D μ Controller for Coupled Tank Systems
227	Praveen Kumar Navin and Yogesh Prakash Mathur	Design optimization of sewer system using particle swarm optimization
232	Sampath Kumar, K. Prabhakar Nayak and Hareesha K S	Combined SCP and Geometric Reconstruction of Spine from Biplanar Radiographs
305	Balamurugan M, Narendiran S, Sarat Kumar Sahoo, Prabhakar Karthikeyan and Rani C	Design of Boost Converter for PV Applications
306	Ranjana Sharma	A Review of soft classification approaches on satellite Image and accuracy assessment

T3

Paper ID	Authors' Names	Paper Title
22	Amar Nath, Rajdeep Niyogi and Santanu Kumar Rath	Optimized Scenario of Temperature Forecasting using SOA and Soft Computing Techniques
159	Bhagawati Prasad Joshi, Mukesh Pandey and Sanjay Kumar	Forecasting of the Enrollments of the University of Alabama based on Intuitionistic Fuzzy Time Series
289	Mohit Rastogi and Shivraj Singh	An inventory model of Decaying items with stock dependent and seasonal pattern demand and allowable shortages
320	Zahid Wani and Prof. Syed Mohammad Khurshid Quadri	Artificial Bee Colony trained Functional Link Artificial Neural Network Model for Software Cost Estimation
332	Vanita Garg and Kusum Deep	Optimal Extraction of Bioactive Compounds from Ashwgandha using Laplacian Biogeography Based Optimization
338	Assif Assad and Kusum Deep	Applications of Harmony Search Algorithm in Data Mining: a survey

T4

Paper ID	Authors' Names	Paper Title
19	Narhari Chaudhari and Neha Chaudhari	One day ahead forecast of pan evaporation at Pali using genetic programming
191	Rajesh Eswarawaka	Parallelization of Simulated Annealing Algorithm for FPGA Placement and Routing
223	Minisha Moudgil and Rajesh Kumar	Multiple-input Multiple-output Paper Machine System Control Using Fuzzy-PID Tuned Controller
224	Vishal Gupta, Raman Deep and Naveen Gulati	Common fixed point results in G_b metric space and generalized fuzzy metric space using E.A property and altering distance function
313	Neha Yadav, Joong Hoon Kim and Anupam Yadav	Numerical solution of a class of singular boundary value problems arising in physiology based on neural networks
315	Dr. H. D. Arora, Ramita Sahni and Talat Parveen	Prototype Evidence for Estimation of Release Time for Open Source Software using Shannon Entropy Measure

T5

Paper ID	Authors' Names	Paper Title
11	Rajesh Singh, Sugandha Agarwal and Rashmi Dubey	Reinforcing Particle System effects Using Object Oriented Approach & Real Time Fluid Dynamics for next Generation 3D Gaming
233	Pc Varma, V Valli Kumari and Kalyan Chakravarthy	Analysis of network performance based on Docker container in Hadoop cluster Environment
264	Ruchi Puri and Iqbaldeep Kaur	Human Opinion Dynamics for Software Cost Estimation
278	Ambreen Saleem and Dr. Ambuj Agarwal	ANALYSIS AND DESIGN OF SECURE WEB SERVICES
319	Love Jain, Raghvendra Singh, Sanyog Rawat and Kanad Ray	Miniaturized meandered and stacked MSA using accelerated design strategy for biomedical applications
322	Raghvendra Singh, Love Jain, Sanyog Rawat and Kanad Ray	Performance of Wideband Falcate Implantable Patch Antenna for Biomedical Telemetry

T6

Paper ID	Authors' Names	Paper Title
43	Neha Ahlawat and Roshan Lal	Axisymmetric vibrations of variable thickness functionally graded clamped circular plate
98	Jasminebenazir A and Sivaraj R	Dispersion effects on MHD Casson fluid flow over a vertical cone saturated with non-Darcy porous medium
174	Nidhi Handa, Tarun Gupta and Shyam Lal Singh	Comparative Study of Bakhshālī Square root Method with Newton's Iterative Method
258	Elizabeth Sebastian, Preethi Victor and Priyanka Victor	Discrete-time Eco-Epidemiological model with Disease in Prey and Holling-Type III functional response
266	Sandhya Dubey, N. Gopalakrishna Kini, M. Sathish Kumar and S. Balaji	A comparative study of various meta-heuristic algorithms for ab initio protein structure prediction on 2D Hydrophobic-Polar model
345	Ajit Kumar, Sc Sati and Ak Ghosh	Equilibrium Cable Configuration Estimation for Aerostat using Approximate Method

T7

Paper ID	Authors' Names	Paper Title
228	Sanjay Kumar Singh, D. Boolchandani, Shri Gopal Modani and Nitish Katal	Optimal Tuning of PID Controller for Centrifugal Temperature Control System in Sugar Industry using Genetic Algorithm
329	Millie Pant and Shilpa Srivastava	Role of Fuzzy Logic in Psychology
334	Amarjeet Singh and Kusum Deep	Curve Fitting Using Gravitational Search Algorithm and Its Hybridized Variants
335	Kavita Gupta and Kusum Deep	Investigation of suitable Perturbation Rate scheme for Spider Monkey Optimization Algorithm
341	Nirmala Sharma, Harish Sharma, Ajay Sharma and Jagdish Chand Bansal	Modified Artificial Bee Colony Algorithm based on Disruption Operator
342	Archana Sharma, Bharat Singh Rajpurohit and Lingfeng Wang	DG Integration with Power Quality Improvement Feature for Smart Grid

T8

Paper ID	Authors' Names	Paper Title
6	Tapas Si	Grammatical Evolution using Fireworks Algorithm
25	Poonam Panwar, Shivani Sachdeva and Satish Rana	A Genetic Algorithm based Scheduling Algorithm for Grid Computing Environments
150	Sreejith S, Velamuri Suresh and Ponnambalam P	Static Economic Dispatch Incorporating UPFC using Artificial Bee Colony Algorithm
156	Parmvir Singh Bhullar and Jaspreet Kaur Dhani	PSO-TVAC Based Economic Load Dispatch with Valve Point Loading
164	Ravie Chandren Muniyandi	Improved Convergence Behavior by Using Best Solutions to Enhance Harmony Search Algorithm
259	Shashi Barak and Kusum Deep	A novel crossover operator designed to exploit synergies of two crossover operators for Real Coded Genetic Algorithms

T9

Paper ID	Authors' Names	Paper Title
47	Babita Mishra and Shiva Raj	Optimal land allocation in Agricultural production Planning using Fuzzy Goal Programming
94	Ponnambalam Pathipooranam, Praveen Kumar Medarametla, Surendar V and Gokulakrishnan G	Fuzzy Controller for Flying Capacitor Multicell Inverter
114	Ponnambalam Pathipooranam, Shyam Sekhar B, Surendar V and Ravi Teja Pathakotta	Fuzzy Controller for Reversing Voltage Topology MLI
142	Shwetank Avikal, Sanjay Sharma, J. S. Kalra, Deepak Verma and Rohit Pandey	A Fuzzy-AHP approach for calculating the weights of disassembly line balancing criteria
212	Vishal Gupta, R.K. Saini and Manu Verma	Common fixed point results for occasionally weakly compatible mappings in fuzzy metric spaces
222	Shikha Verma and Sharad Chaudhari	Fuzzy Reasoning Approach (FRA) for Assessment of Workers Safety in Manganese Mines

T10

Paper ID	Authors' Names	Paper Title
9	Priyadarshini Rai and M Hanmandlu	Function value based Particle Swarm Optimization
26	Poonam Panwar and Ravneet Kaur	Effect of Imperfect Debugging on Prediction of Remaining Faults in Software
75	Mrudang Pandya and Jay Patel	A Survey: Artificial Neural Network For Character Recognition
82	Purushottam Kumawat and Gaurav Soni	Crosstalk Analysis in Global Interconnects
135	Nitin Kumar, Sugandha Agarwal and Rashmi Dubey	Rendering Rigid Shadows Using Hybrid Algorithm
210	Ingudam Gomita, Sandeep Chauhan and Raj Kumar Sagar	Using least square spectral analysis method for time series with datum shifts

T11

Paper ID	Authors' Names	Paper Title
5	Rajashree Mishra and Kedar Nath Das	Chemo-inspired Genetic Algorithm and Application to Model Order Reduction Problem
89	Motahar Reza, Saroj Satapathy, Subhashree Pattnaik and Deepak Panda	Optimized point Robot path planning in cluttered environment using GA
108	Jestin V Kunjummen	Extraction Of Blood Vessels And Optic Disc Segmentation For Retinal Disease Classification
162	Preeti Gupta, Deepti Mehrotra and Tarun Kumar Sharma	Genetic based Weighted Aggregation model for optimization of student's performance in Higher Education
231	A. J. Umbarkar	OpenMP Genetic Algorithm for continuous non-linear large scale optimization problems
339	Vijay Raviprabhakaran and Ravichandran Coimbatore Subramanian	Enriched biogeography - based optimization algorithm to solve economic power dispatch problem

T12

Paper ID	Authors' Names	Paper Title
40	Santosh Kumar Das and Sachin Tripathi	Energy Efficient Routing Protocol for MANET using Vague Set
42	Prachi Deshpande, Prof. Subhash Sharma and Sk Peddoju	Data Storage Security in Cloud Paradigm
69	Gaurav Pandey and Amritpal Singh	Recent Advancements of Energy Efficient Routing in Wireless Sensor Networks: A Survey
84	Rishika Sethi and Gaurav Soni	Comparative analysis of Si-MOSFET and CNFET based 28T Full Adder
153	Santar Pal Singh, Kartik Bhanot and Sugam Sharma	Critical Analysis of Clustering Algorithms for Wireless Sensor Networks
160	Mukund Kulkarni, Bharat Tidke and Rajeev Arya	An Improved Privacy-Preserving Public Auditing for Secure Cloud Storage
161	Arvind Kumar Shukla, C.K. Jha and Rajeev Arya	A Simulation Study with Mobility Models Based on Routing Protocol
175	Raghavendra Achar and P. Santhi Thilagam	Dynamic Resource Allocation for Multi-tier Applications in Cloud
250	Joydev Ghosh, Varsha Panjwani, Sanjay Dhar Roy	Secondary Network Throughput Analysis Applying SFR in OFDMA-CR Networks

T13

Paper ID	Authors' Names	Paper Title
137	Deepa Saini, B. K Kaushik, Manoj Purohit, Manvendra Singh and Sudhir Khare	Analysis and Comparison of Regularization Techniques for Image Deblurring
147	Manoj Kumar, Smita Agrawal and Triloki Pant	SVD BASED FRAGILE REVERSIBLE DATA HIDING USING DWT
152	Manoj Kumar and Manoj Diwakar	Edge preservation based CT image denoising using Wavelet and Curvelet transforms
280	Ruchi Gupta and Dr Pradeep Kumar Yadav	A Fuzzy Clustering Method for Performance Evaluation for Distribute Real Time System
308	Michael Mutingi and Venkata P. Kommula	Reliability Optimization for the Complex Bridge System: Fuzzy Multi-criteria Genetic Algorithm

T14

Paper ID	Authors' Names	Paper Title
88	Subhojit Dawn, Sadhan Gope, Prashant Kumar Tiwari and Arup Kumar Goswami	Optimal Demand Side Bidding using Evolutionary Algorithm in Deregulated Environment
220	Vandana Gupta and Shivraj Singh	Vendor – Supplier cooperative inventory model with two warehouse and variable demand rate under the environment of volume agility
346	Arshia Kaul, Anshu Gupta, Sugandha Aggarwal and P.C. Jha	Differential Evolution Approach to Determine the Promotion Duration for Durable Technology Product under the Effect of Mass and Segment Driven Strategies
347	Vernika Agarwal, Jyoti Dhingra Darbari and P C Jha	A Fuzzy optimization approach for designing a sustainable RL network in a strategic alliance between OEM and 3PRL
350	Om Prakash Verma, Toufiq Haji Mohammed, Shubham Mangal and Gaurav Manik	Mathematical modeling of multistage evaporator system in Kraft recovery process

T15

Paper ID	Authors' Names	Paper Title
124	Steven Lawrence Fernandes, Dr. G. Josemin Bala	IMAGE QUALITY ASSESSMENT BASED APPROACH TO ESTIMATE THE AGE OF PENCIL SKETCH
125	Steven Lawrence Fernandes, Dr. G. Josemin Bala	SELF SIMILARITY DESCRIPTOR AND LOCAL DESCRIPTORS BASED COMPOSITE SKETCH MATCHING
180	Sadhana B, Ramesh Nayak and Shilpa B	A Hybrid Technique for Image Restoration and Segmentation Using Neural Networks
194	Reshma M and Priestly.B Shan	Review of Image Acquisition and Classification Methods on Early detection of Skin Cancer
234	Narain Ponraj, Poongodi Ravikumar and Merlin Mercy	Hough Transform Based Feature Extraction for the Classification of Mammogram Using Back Propagation Neural Network

T16

Paper ID	Authors' Names	Paper Title
154	Dipti Singh and Seema Agrawal	Nelder - Mead and Non Uniform Based SOMA
169	Shailendra Kumar Dhakad, Dr. Neeraj Kumar, Ashwani Kr. Yadav, Karthik Ramakrishnan and Shashank Verma	A Novel Single Band Microstrip Antenna with Hexagonal Fractal for Surveillance Radar Application
211	Malathy Paulpandi, Dr. A. Shunmugalatha Alagarsamy and Marimuthu T	Application of Differential Evolution for Maximizing the Loadability Limit of Transmission system During Contingency
216	Neeraj Gupta, Prashant Kumar, Ashutosh Gupta, Rashmi Gupta and Janak Kumar B. Patel	A SYSTEMATIC STUDY ON MITIGATING PARAMETER VARIATION IN MOSFETS
270	Pooja, Praveena Chaturvedi and Dr Pravesh Kumar	Population Segmentation based variant of Differential Evolution Algorithm

T17

Paper ID	Authors' Names	Paper Title
155	Mariana-Edith Miranda-Varela and Efrén Mezura-Montes	Surrogate-assisted Differential Evolution with an adaptive evolution control based on feasibility to solve constrained optimization problems
291	Sunil Kumar Jauhar and Millie Pant	Using Differential Evolution to develop a Carbon integrated model for performance evaluation and selection of sustainable suppliers in Indian automobile supply chain
304	Shafeeque Ahmed, Fini Fathima, Ramesh A, Prabhakar Karthikeyan, Sarat Kumar Sahoo and Rani C	Prediction of Market Power using SVM as Regressor under Deregulated Electricity Market
307	Joong Hoon Kim, Thi Thuy Ngo and Ali Sadollah	A new collaborative approach to particle swarm optimization for global optimization
330	Dr Pravesh Kumar and Dr Millie Pant	Modified Single Array Selection Operation for DE Algorithm
337	Hira Zaheer, Millie Pant and Oleg Monakhov	A Portfolio Analysis of Ten National Banks through Differential Evolution

T18

Paper ID	Authors' Names	Paper Title
62	Mudasir Mohd, Muzaffar Bashir Shah, Shabir Ahmad Baht, Ummer Bashir Kawa, Hilal Ahmad Khanday, Abid Hussain Wani, Mohsin Altaf Wani and Rana Hashmy	Sumdoc: A Unified approach for Automatic Text Summarization
104	Sagnik Banerjee, Debjyoti Ghosh, Subhadip Basu and Mita Nasipuri	JUPred_SVM: Prediction of Phosphorylation Sites using a consensus of SVM classifiers
129	Vaibhav Gupta	Printed Hindi Characters Recognition using Neural Network
136	Priyanka Kamboj, Gaurav Raj and Dheerendra Singh	Analysis of Role Based Access Control in SDN
206	Ingudam Gomita, Sandeep Chauhan and Raj Kumar Sagar	A brief overview on least square spectral analysis and power spectrum
297	Mamta Arya, Satyanarayan Singh and Om Prakash Dubey	TRADITIONAL E-GOVERNANCE TO CLOUD BASED E- GOVERNANCE IN INDIA

T19

Paper ID	Authors' Names	Paper Title
36	Vikram Singh	Multi-Objective Parametric Query Optimization for Distributed Database Systems
302	Nidhi Pant, Surya Kant, Bhaskar Pant and Shashi Kumar Sharma	AN EFFICIENT APPROACH FOR MINING SEQUENTIAL PATTERN
303	Priyanka Rawat, Surya Kant, Bhasker Pant, Shashi Sharma and Ankur Chaudhary	A BETTER APPROACH FOR MULTILEVEL ASSOCIATION RULE MINING
326	Kanishka Bajpayee, Surya Kant, Bhasker Pant, Shashi Sharma and Ankur Choudhary	MINING FREQUENT ITEMSET USING QUINE-McCLUSKEY ALGORITHM
327	Dr. Om Prakash Dubey, Rani Manisha, Kusum Deep and Pankaj Kumar Singh	Robotics and Image Processing: For plucking of fruits.

T20

Paper ID	Authors' Names	Paper Title
48	Shailesh Kumar, Sumita Kachhwaha and S. L. Kothari	Quantitative estimation for impact of genomic features responsible for 5' and 3' UTR formation in Human Genome
230	Pulkit Garg and Vivek Sharma	Fault Diagnosis of ZSI fed 3-phase Induction Motor
255	Shashank Sundriyal, Praveen Lakhera, Brijesh Kumar, Vishal Ramola and Poornima Mittal	Performance Comparison between InP-ON and SON MOSFET at Different Nanotechnology Nodes Using 2-D Numerical Device Simulation
277	Mamtha Mohan	An Approach to protect Electronic Health Records
301	Aditya Pan, Anwesha Mal and Shruti Gupta	Application for Identifying and Monitoring Defaulters in Telecom Network
317	Pradeep Mishra, Dr.Sanjeev Karmakar and Dr. Puluk Guhathakurta	A broad Literature survey of development and application of Artificial Neural networks in Rainfall-Runoff Modelling

T21

Paper ID	Authors' Names	Paper Title
145	Manoj Kumar and Ankita Vaish	An Efficient Compression of Encrypted Images using WDR Coding
298	Akash Gupta, S.P. Mishra and B.M. Suri	Differential Power Attack on Trivium implemented on FPGA
300	Ak Singh, Sp Mishra, Bm Suri and Anu Khosla	Investigations of Power and EM Attacks on AES Implemented in FPGA
318	Arpita Banerjee, Chitreshh Banerjee, Dr. Santosh K Pandey and Dr. Ajeet Singh Poonia	DEVELOPMENT OF IMACOQR METRICS FRAMEWORK FOR QUANTIFICATION OF SOFTWARE SECURITY
321	Ajeet Singh Poonia, Chitreshh Banerjee and Arpita Banerjee	IMPROVISED CYBER CRIME INVESTIGATION MODEL

T22

Paper ID	Authors' Names	Paper Title
17	Priyanka and Sushila Maheshkar	An optimized Color Image Watermarking Technique using Differential Evolution and SVD-DWT domain
172	Srinivas Vadali	Optimization of Hyper-Spectral Images and Performance Evaluation using Effective Loss Algorithm
202	Chanda Thapliyal Nautiyal, Sunita Singh and U.S. Rana	Evaluation of Huffman-code and B-code Algorithms for Image Compression Standards
207	Vaibhav Sharma, Gulista Khan, Kamal Kumar Gola and Rahul Rathore	ASCCS: Architecture for Secure Communication Using Cloud Services

T23

Paper ID	Authors' Names	Paper Title
24	Arunima Jaiswal and Ruchika Malhotra	Software Reliability Prediction using Machine Learning Techniques
31	Seema Rawat, Geetika Jain and Praveen Kumar	Implementation of the principle of jamming for Hulk Gripper remotely controlled by Raspberry Pi
35	Amritpal Singh and Sushil Kumar	Differential Evolution: An Overview
65	Praveen Kumar, Vijay Rathore and Seema Rawat	Improvising and optimizing resource utilization in Big Data Processing
93	Kapil Patidar, Manoj Kumar and Sushil Kumar	Performance Analysis of DE over K-Means Proposed Model of Soft Computing
105	Chandra Prakash, Kanika Gupta, Rajesh Kumar and Namita Mittal	Fuzzy Logic based Gait Phase Detection using Passive Markers

T24

Paper ID	Authors' Names	Paper Title
49	Mohammad Nadeem, Haider Banka and R. Venugopal	Comparison of multilayer perceptron (MLP) and support vector machine (SVM) in predicting green pellet characteristics of manganese concentrate
83	Arti Joshi and Gaurav Soni	A Comparative Analysis of Copper and Carbon NanoTubes Based Global Interconnects in 32nm Technology
158	Shwetank Avikal	A heuristic based on AHP and TOPSIS for disassembly line balancing
239	Radhika A, Shunmugalatha A and Devaki M	Modeling of Micro Turbine Generator (MTG) System with Unified Power Quality Conditioner (UPQC)
312	Dr Sunita Singh, Vn Singh Singh and Durga Singh	Laser Power Distribution for Detection Performance in Laser Ranging System
333	Renu Tyagi, Dr. Millie Pant and Dr. Yuvraj Singh Negi	Implementation of Fmincon Statistical Tool in Optimizing the SHG Efficiency of Polymeric Films

T25

Paper ID	Authors' Names	Paper Title
4	Kamna Sharma, Chaman Singh and Shivraj Singh	A Production Model having Weibull Distribution Deterioration with Stock Dependent Demand, Partial Backlogging and Customer Returns
213	Rishi Soni and Sugandha Rathi	Privacy Preservation in Utility Mining Based on Genetic Algorithm: A New Approach
235	Harpreet Singh and Parminder Kaur	Ant Colony System based E-supermarket website link structure optimization
348	Ramandeep Kaur, Stuti Arora and P.C. Jha	Fuzzy Bi-Criteria Optimization Model for Fault-Tolerant Distributed Embedded Systems under Reuse-or-Build-or-Buy Strategy incorporating Recovery Block Scheme
349	Nidhi Bhayana, Kanika Gandhi and P.C. Jha	Hybrid multi-criteria decision making approach for supplier evaluation in fuzzy environment

T26

Paper ID	Authors' Names	Paper Title
205	Bharti Sharma, Vinod Kumar Katiyar and Arvind Kumar Gupta	Traffic Accident prediction model using Support Vector Machines with Gaussian Kernel
249	Dr. Dipti Singh and Ajay Sattija	Municipal Solid Waste Generation Forecasting for Faridabad City located in Haryana State, India
251	Monika Phulia, Krishna Kant Singh and Akansha Singh	Unsupervised Change Detection in Remote Sensing Images Using CDI and GIFF-FCM Clustering
260	Priyanka Mahani, Akanksha Kulshreshtha and Anil Goswami	Classification Techniques for Texture Images Using Neuroph Studio
265	Poonam Yadav, Manjeet Dalal and Poonam Yadav	Soft Computing Techniques for Remote Sensing Data
276	Abhishek Bhatt, Sanjay Kumar Ghosh and Anil Kumar	Spectral Indices Based Change Detection in an Urban Area Using Landsat Data
281	Jyotika Pruthi and Gaurav Gupta	Image Segmentation using Genetic Algorithm and OTSU

T27

Paper ID	Authors' Names	Paper Title
1	Nikita Joshi and Sarika Jain	Optimization of Non Local Means Filtering Technique for Denoising Magnetic Resonance Images
27	Deepak Motwani and A.S. Saxena	Multiple Document Summarization using text based keyword Extraction
167	Purva Grover and Rahul Johari	MVM : MySQL Vs MongoDB
196	S C Dutta, Sudha Singh and D K Singh	Enhancement of Mobile Adhoc Network security using Improved RSA algorithm
214	Chahat Sharma and Sanjay Dubey	Reliability Evaluation of Software System Using AHP & Fuzzy TOPSIS Approach
215	Sudha Singh, S. C. Dutta and D. K. Singh	Information security and its insurance in the world of high rise of Cybercrime through a model

T28

Paper ID	Authors' Names	Paper Title
67	Eben Sophia P and Anitha J	Region based Prediction and Quality measurements for Medical image compression
85	Ebenezer Daniel and J Anitha	Cuckoo search based scale value optimization for enhancement in retinal image registration
183	Rinku K Chandolia and Sanjeev Singh	Modified PSO Algorithm for Controller Optimization of a PFC ĆUK Converter fed PMLDPCM Drive
184	Paramjeet Singh Jamwal and Sanjeev Singh	Speed Controller Optimization for PMSM Drive using PSO algorithm
199	Avadh Kishor and Pramod Kumar Singh	Empirical Study of Grey Wolf Optimizer (GWO) and Development of a New Modified Version of GWO
241	Muneendra Ojha, Krishna Pratap Singh, Pavan Chakraborty and Sekhar Verma	An Aggregation Based Approach with Pareto Ranking in Multiobjective Genetic Algorithm

T29

Paper ID	Authors' Names	Paper Title
15	Preedhi Garg and Richa Gupta	Searchless Fractal Image Compression using Fast DCT and Real DCT
16	Indu Aggarwal and Richa Gupta	Study of Neighborhood Search Based Fractal Image Encoding
44	Sourav Dey Roy, Priya Saha, Mrinal Kanti Bhowmik and Debanjana Debnath	Performance Evaluation of Geometric Based Hybrid Approach For Facial Feature Localization
57	Priyanka Tyagi, Abhishek Mehrotra, Shanu Sharma and Sushil Kumar	Audio Pattern Recognition and Mood Detection System
74	Saurin Sheth, Saurabh Saboo, Harsh Dhanesha, Love Rajai, Parth Jetani and Prakash Dholariya	A Novel Approach for Actuation of Robotic Arm using EEG and Video Processing
182	Manasi N. Patil, Dr. Brijesh Iyer and Rajeev Arya	Performance Evaluation of PCA and ICA Algorithm For Facial Expression Recognition Application
244	Nagaraju Andavarapu and Valli Kumari Vatsavayi	Weighted CoHOG(W-CoHOG) Feature Extraction for Human Detection

T30

Paper ID	Authors' Names	Paper Title
72	Apoorva Gupta, Manoj Kumar and Sushil Kumar	A Novel Approach for Market Prediction using Differential Evolution & Genetic Algorithm
91	Rahul Verma and Kunal Gupta	Intelligent Traffic Management System
92	Priyanka Singh and Kunal Gupta	Intelligent Parking Management System Using RFID
262	Radhika Maheshwari, Manoj Kumar and Sushil Kumar	Optimization of feature selection in face recognition system using differential evolution and genetic algorithm
271	Irshad Ahmad Ansari, Millie Pant and Chang Wook Ahn	PSO optimized and secured watermarking scheme based on RDWT and SVD
284	D.K. Sheena Christy, D.G. Thomas, Atulya.K. Nagar and Robinson Thamburaj	On Accepting Hexagonal Array Splicing System with respect to Directions
286	Dushyant Kumar Singh and Dharmender Singh Kushwaha	Tracking movements of Human Being in a Real-Time Surveillance Scene
294	Priyanka Gupta and Mahesh Bundele	A NEW APPROACH FOR RICE QUALITY ANALYSIS AND CLASSIFICATION USING THRESHOLDING BASED CLASSIFIER