

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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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69	Gaurav Pandey and Amritpal Singh	Recent Advancements of Energy Efficient Routing in Wireless Sensor Networks: A Survey
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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
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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
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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
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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
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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
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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

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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

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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

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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
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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
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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

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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
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184	Paramjeet Singh Jamwal and Sanjeev Singh	Speed Controller Optimization for PMSM Drive using PSO algorithm
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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
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