

**World Congress on Nature and Biologically Inspired
Computing (NaBIC'09)**

**VIII International Conference on Computer Information
Systems and Industrial Management (CISIM 2009)**

December 08-11, Coimbatore, India

Preliminary Programme

December 08, 2009

08:00 – 9:00	Registration and Breakfast				
9:00 – 12:00	Tutorial 1	Tutorial 2	Tutorial 3	Tutorial 4	
13:00 - 14:00	Lunch				
14:00 - 16:00	Tutorial 5	Tutorial 6	Tutorial 7	Tutorial 8	Doctorial Symposium
16:00 - 16:30	Coffee Break				

December 09, 2009

07:30 - 8:30	Registration and Breakfast				
8:30 - 9:00	NaBIC 2009 - CISIM 2009 Opening Ceremony				
9:00 - 10:00	PL1: Plenary Talk				
10:00 - 11:00	PL2: Plenary Talk				
11:00 - 11:15	Coffee Break				
11:15 - 12:00	PL3 Plenary Talk				
12:00 - 13:00	PL4: Plenary Talk				
13:00 - 14:00	Lunch				
14:00-15:00	PL5: Plenary Talk				
15:00 - 17:00	NaBIC SS1	NaBIC SS2	NaBIC SS3	NaBIC SS4	CISIM SS1
17:00 - 17:15	Coffee Break				
17:15 - 17.45	NaBIC - CISIM Poster Sessions				
17.45 - 19:30	NaBIC SS5	NaBIC SS6	NaBIC SS7	NaBIC SS8	CISIM SS2
19:30 - 20:30	Dinner				

December 10, 2009

8:00 – 9:00	Registration and Breakfast				
9:00 – 10:00	PL6: Plenary Talk				
10:00 – 11:00	PL7: Plenary Talk				
11:00 – 11:15	Coffee Break				
11:15 – 12:00	PL8: Plenary Talk				
12:00 – 13:00	PL9: Plenary Talk				
13:00 - 14:00	Lunch				
14:00 - 16:00	NaBIC SS9	NaBIC SS10	NaBIC SS11	NaBIC SS12	Invited Talk
					CISIM SS3
16:00 - 16:30	Coffee Break				
16:30 – 17:15	NaBIC – CISIM Poster Sessions				
17:15 - 19:00	NaBIC SS13	NaBIC SS14	NaBIC SS15	NaBIC SS16	Invited Talk
					CISIM SS4
19:00 – 21:00	Conference Banquet / Award Ceremonies				

December 11, 2009

08:00 – 9:00	Registration and Breakfast				
9:00 - 10:45	NaBIC SS17	NaBIC SS18	NaBIC SS19	NaBIC SS20	Invited Talk
					CISIM SS5
10:45 - 11:00	Coffee Break				
11:00 - 12:45	NaBIC SS21	NaBIC SS22	NaBIC SS23	Invited Talk	
				CISIM SS6	
12:45 – 13:00	Closing Ceremony				
13:00-14:00	Lunch				
15:00	Transport to INC 2009, Cochin				

World Congress on Nature and Bio-inspired Computing (NaBIC 2009)
Dec 08-11, 2009 Coimbatore India

Session Schedule Index

Paper Id	Session Id
1	NaBIC SS8
5	NaBIC SS6
6	NaBIC SS16
7	NaBIC SS7
8	NaBIC SS8
9	NaBIC SS13
10	NaBIC SS16
11	NaBIC SS7
11 (spl. session)	NaBIC SS8
12	NaBIC-CISIM Poster Sessions II
12 (spl. session)	NaBIC SS9
13	NaBIC SS1
13 (spl. session)	NaBIC SS23
15	NaBIC SS2
15 (spl. session)	NaBIC SS23
16	NaBIC SS23
17	NaBIC SS21
18	NaBIC SS23
19	NaBIC SS8
22	NaBIC SS23
23	NaBIC-CISIM Poster Sessions I
23 (spl. session)	NaBIC SS16
24	NaBIC SS10
24 (spl. session)	NaBIC SS8
26	NaBIC SS16
27	NaBIC SS20
27 (spl. session)	NaBIC SS16
28	NaBIC SS17
30	NaBIC SS7
31	NaBIC SS23

Paper Id	Session Id
32	NaBIC SS8
33	NaBIC SS13
33 (spl. session)	NaBIC SS8
34	NaBIC-CISIM Poster Sessions I
34 (spl. session)	NaBIC SS16
35	NaBIC SS23
36	NaBIC SS2
36 (spl. session)	NaBIC SS15
37	NaBIC SS13
38	NaBIC SS2
40	NaBIC SS15
41	NaBIC SS6
45	NaBIC-CISIM Poster Sessions I
48	NaBIC-CISIM Poster Sessions I
52	NaBIC SS2
55	NaBIC SS1
56	NaBIC-CISIM Poster Sessions II
57	NaBIC SS2
58	NaBIC SS22
59	NaBIC SS6
60	NaBIC SS2
62	NaBIC-CISIM Poster Sessions I
63	NaBIC SS20
64	NaBIC SS20
65	NaBIC SS9
67	NaBIC SS1
70	NaBIC SS15
71	NaBIC SS11
72	NaBIC SS13
73	NaBIC SS5
74	NaBIC SS20
75	NaBIC-CISIM Poster Sessions II
77	NaBIC SS22
80	NaBIC SS21
81	NaBIC SS9
82	NaBIC-CISIM Poster Sessions I
83	NaBIC SS1
86	NaBIC SS3

Paper Id	Session Id
87	NaBIC SS12
88	NaBIC SS13
89	NaBIC SS11
91	NaBIC SS3
93	NaBIC SS11
94	NaBIC-CISIM Poster Sessions II
96	NaBIC SS6
97	NaBIC SS1
100	NaBIC SS14
108	NaBIC SS11
110	NaBIC SS21
111	NaBIC SS6
112	NaBIC SS11
113	NaBIC SS21
114	NaBIC SS17
115	NaBIC SS5
116	NaBIC-CISIM Poster Sessions II
121	NaBIC SS2
123	NaBIC SS18
124	NaBIC SS3
126	NaBIC SS9
127	NaBIC SS14
130	NaBIC SS18
131	NaBIC SS14
133	NaBIC-CISIM Poster Sessions I
134	NaBIC SS7
135	NaBIC SS22
136	NaBIC SS5
137	NaBIC SS6
142	NaBIC SS1
144	NaBIC-CISIM Poster Sessions I
145	NaBIC SS15
147	NaBIC-CISIM Poster Sessions I
150	NaBIC SS18
151	NaBIC SS20
152	NaBIC SS21
153	NaBIC SS20
154	NaBIC SS13

Paper Id	Session Id
155	NaBIC SS5
157	NaBIC SS11
158	NaBIC-CISIM Poster Sessions II
159	NaBIC SS4
161	NaBIC-CISIM Poster Sessions I
162	NaBIC-CISIM Poster Sessions I
164	NaBIC SS12
165	NaBIC-CISIM Poster Sessions II
166	NaBIC SS12
171	NaBIC SS19
179	NaBIC SS3
180	NaBIC SS22
181	NaBIC SS4
183	NaBIC SS4
184	NaBIC SS4
186	NaBIC SS11
187	NaBIC SS17
188	NaBIC-CISIM Poster Sessions I
189	NaBIC SS5
191	NaBIC-CISIM Poster Sessions II
194	NaBIC SS12
196	NaBIC-CISIM Poster Sessions II
197	NaBIC SS9
198	NaBIC SS3
199	NaBIC SS17
200	NaBIC-CISIM Poster Sessions II
201	NaBIC SS7
204	NaBIC SS19
205	NaBIC SS15
206	NaBIC SS19
207	NaBIC SS15
210	NaBIC SS3
211	NaBIC SS3
213	NaBIC SS17
215	NaBIC SS19
218	NaBIC SS10
220	NaBIC-CISIM Poster Sessions II
221	NaBIC-CISIM Poster Sessions II
223	NaBIC SS10

Paper Id	Session Id
225	NaBIC SS19
226	NaBIC SS4
227	NaBIC SS20
228	NaBIC SS22
229	NaBIC SS4
230	NaBIC SS10
231	NaBIC SS18
233	NaBIC SS5
235	NaBIC SS15
236	NaBIC SS18
237	NaBIC SS11
238	NaBIC SS19
239	NaBIC-CISIM Poster Sessions I
241	NaBIC-CISIM Poster Sessions I
242	NaBIC SS6
243	NaBIC SS18
244	NaBIC SS17
245	NaBIC SS12
248	NaBIC SS12
250	NaBIC SS22
252	NaBIC SS22
255	NaBIC SS17
256	NaBIC SS12
257	NaBIC-CISIM Poster Sessions I
258	NaBIC SS9
259	NaBIC SS9
260	NaBIC SS11
261	NaBIC SS9
264	NaBIC-CISIM Poster Sessions II
266	NaBIC-CISIM Poster Sessions II
267	NaBIC-CISIM Poster Sessions II
269	NaBIC SS7
270	NaBIC SS22
271	NaBIC SS11
272	NaBIC SS21
273	NaBIC SS7
274	NaBIC SS14
277	NaBIC SS5

VIII International Conference on Computer Information Systems and
Industrial Management (CISIM, 2009)

Dec 08-11, 2009 Coimbatore India

Session Schedule Index

Paper Id	Session Id
1	CISIM SS1
3	CISIM SS5
4	CISIM SS4
5	CISIM SS2
10	CISIM SS5
11	NaBIC-CISIM Poster Sessions I
12	CISIM SS5
13	CISIM SS5
20	CISIM SS4
22	CISIM SS1
26	NaBIC-CISIM Poster Sessions I
33	NaBIC-CISIM Poster Sessions I
34	NaBIC-CISIM Poster Sessions I
36	NaBIC-CISIM Poster Sessions I
37	CISIM SS6
38	NaBIC-CISIM Poster Sessions I
43	CISIM SS2
45	CISIM SS6
47	CISIM SS1
51	CISIM SS2
52	NaBIC-CISIM Poster Sessions II
53	CISIM SS3
54	CISIM SS3
56	CISIM SS1
57	CISIM SS1
58	CISIM SS1
60	CISIM SS2
61	NaBIC-CISIM Poster Sessions II
63	CISIM SS2
67	NaBIC-CISIM Poster Sessions II
69	CISIM SS2
70	CISIM SS3
72	CISIM SS3
75	CISIM SS2
78	NaBIC-CISIM Poster Sessions II
79	CISIM SS4
87	CISIM SS4
91	CISIM SS6
94	CISIM SS4
98	CISIM SS3
101	NaBIC-CISIM Poster Sessions II
102	CISIM SS6
104	CISIM SS1

NaBIC SS1

Neural Networks Dec 09, 2009 15.00-17.00

- 13 ANITHA J, kezi selva vijila C and jude hemanth D. An Enhanced Counter Propagation Neural Network for Abnormal Retinal Image Classification
- 55 Ravisankar Pediredla and V. Ravi. Failure Prediction of Banks Using Threshold Accepting Trained Kernel Principal Component Neural Network
- 67 Anamika Jain, A.S. Thoke and R. N. Patel. Double Circuit Transmission Line Fault Distance Location using Artificial Neural Network
- 97 Mrinal Bhowmik, Debotosh Bhattacharjee, Mita Nasipuri and Mahantapas Kundu. Classification of fused images using radial basis function neural network for human face Recognition
- 83 Venkata Padmavati Metta, Kamala Krithivasan and Deepak Garg. Modeling Spiking Neural P systems using Timed Petri nets
- 142 Qiangwei Wang, Boyang Li and Jinglu Hu. Feature Selection for Human Resource Selection Based on Affinity Propagation and SVM Sensitivity Analysis

NaBIC SS2

Swarm Intelligence and PSO Dec 09, 2009 15.00-17.00

- 15 Manoj Kumar Maharana and Shanti Swarup K. Particle Swarm Optimization based Corrective Strategy to Alleviate Overloads in Power System
- 36 Kamalakar bakwad, Shyam Pattnaik, B.S. Sohi, Swapna Devi, B.K. Panigrahi, Sanjoy Das and M.R. Lohokare. Syncro Germ Co-operation by Twin Swarm Intelligence for Multimodal Function Optimization
- 38 chandra sekhar and Prof. P.C. Panda. Fuzzy Controlled Harmonic Suppressor and Reactive Volt Ampere Compensator for Enhancing Power Quality, IS01, Applied Swarm Intelligence: A Power System Perspective
- 52 Manoj V J and Elizabeth Elias. On the Design of Multiplier-less Nonuniform Filterbank Transmultiplexer Using Particle Swarm Optimization
- 57 Harish Garg, Dr.S.S. Pattnaik, Dr.Swapna Devi, K. M. Bakwad, B. K. Panigrahi and S. K Das. Sliced Particle Swarm Optimization (SPSO); A Computationally Efficient Optimization Technique
- 60 Gagan Singhal, Abhishek Jain and Amalendu Patnaik. Parallelization of Particle Swarm Optimization using Message Passing Interfaces (MPIs)
- 121 Apurba Gorai and Ashish Ghosh. Gray-level Image Enhancement by Particle Swarm Optimization

NaBIC SS3

Bioinformatics Dec 09, 2009 15.00-17.00

- 86 Vinod Chandra S. S. and Reshmi G.. A Pre-microRNA Classifier by Structural and Thermodynamic Motifs
- 91 Tom Novosad, Vaclav Snasel, Ajith Abraham and Jack Yang. PROSIMA: Protein Similarity Algorithm
- 124 Sudipta Bhattacharya and DURJOY MAJUMDER. An Analytical Approach For Tracking The Tumor Systems Dynamics
- 179 Debasish Datta, Amit Konar and R. Janarthana. Extraction of Interaction Information among Genes from Gene Expression Time Series Data
- 198 Arijit Ghosh, Rushin Shah, Arijit Bishnu and Bhargab B. Bhattacharya. Algorithms for Biological Cell Sorting with a Lab-on-a-chip
- 210 Ruchi Jain, Hari Krishna Yalamanchili and Nita Parekh. Identifying Structural Repeats in Protein using Graph Centrality Measures
- 211 Eshita Mutt, Monika Sharma, Jyothish Soman, Kishore Kothapalli and Abhijit Mitra. Graph Theoretic Approach for studying correlated motions in biomolecules

NaBIC SS4

Bioinspired algorithms Dec 09, 2009 15.00-17.00

- 159 Pavol Navrat, Tomas Jelinek and Lucia Jastrzemska. Bee Hive At Work: A Problem Solving, Optimizing Mechanism
- 181 Sakthi Balan Muthiah. A Study on Automation in Peptide Computing
- 183 Yogeswaran Mohan and Ponnambalam S. G.. A Comparative Study of Policies in Q-Learning for Foraging Tasks
- 184 Yogeswaran Mohan and Ponnambalam S. G.. An Extensive Review of Research in Swarm Robotics
- 226 Chidambaram Chidambaram and Heitor Silverio Lopes. A New Approach for Template Matching in Digital Images Using an Artificial Bee Colony Algorithm
- 229 VAISAKH K, Praveena P and Rama Mohana Rao S. DEPSO and Bacterial Foraging Optimization Based Dynamic Economic Dispatch with Non-Smooth Fuel Cost Function

NaBIC SS5 Grid Computing / Cellular Automata Dec 09, 2009 17.45-19.30

- 155 Sónia M. Almeida-Luz, Manuel M. Rodríguez-Hermoso, Miguel A. Vega-Rodríguez, Juan A. Gómez-Pulido and Juan M. Sánchez-Pérez. GRASP and Grid Computing to Solve the Location Area Problem
- 73 Sumathi Ganesan, Raghunath Rajachandrasekar, Rupak Nagarajan and Sridhar G. Job Submission to Grid using Mobile Device Interface
- 277 G Sudha Sadasivam. Load Balanced, Efficient Scheduling With and Parallel Job Submission in Computational Grids Using Parallel Particle Swarm Optimization
- 233 Wael abdulal, Omar Al Jadaan, Ahmad Jabas and Sirandas Ramachandram. Genetic Algorithm for Grid Scheduling Using Best Rank Power

NaBIC SS6 Search and Optimization Dec 09, 2009 17.45-19.30

- 5 Jalel Euchl and Habib Chabchoub. Tabu Search metaheuristic embedded in Adaptive Memory Procedure for the Profitable Arc Tour Problem
- 41 Xin-She Yang and Suash Deb. Cuckoo Search via Levy Flights
- 111 Kaushik Suresh, Debarati Kundu, Sayan Ghosh, Swagatam Das and Ajith Abraham. IWO with Increased Deviation and Stochastic Selection (IWO-ID-SS) for global optimization of noisy fitness functions
- 137 Marisa da Silva Maximiano, Miguel A. Vega-Rodríguez, Juan A. Gómez-Pulido and Juan M. Sánchez-Pérez. Multiobjective Frequency Assignment Problem using the MO-VNS and MO-SVNS algorithms
- 242 Swagatam Das, Prithwish Chakraborti, Gourab Ghosh Roy and B. K. Panigrahi. On Population Variance and Explorative Power of the Invasive Weed Optimization Algorithm
- 59 Ke Zhang, Yi Chai, Simon X Yang and Gauri S Mittal. Pre-warning Analysis in Traceability System for Food Production Supply Chain
- 96 Arnaud Zinflou, Caroline Gagné and Marc Gravel. Solving multiple-objective optimization problems using GISMOO algorithm

NaBIC SS7 Intelligent Health Systems Dec 09, 2009 17.45-19.30

- 7 Preenon Bagchi, Dr. Somashekhar R, Mahesh M and Rajesh TS. Pharmaco-informatics: Predicting an Ayurvedic Treatment for Hirschsprung's Disease.
- 11 Preenon Bagchi and Kalidass S. An In-Silico approach towards remediation of Schizophrenia
- 30 Sarada Dakua and Jyotinder Sahambi. Left Ventricular Contour Extraction from Cardiac MR Images Using CB and Random Walks Approach
- 269 Jeremiah Suryatenggara, Bernadetta Kwintiana Ane, Maruli Pandjaitan and Winfried Steinberg. Pattern Recognition on 2D Cervical Cytological Digital Images for Early Detection of Cervix Cancer
- 273 Aboul ella Hassani, Hameed Al-Qaheri and Gerald Schaefer. Intelligent analysis of prostate ultrasound images
- 134 Mahua Bhattacharya and Arpita Das. Genetic Algorithm Based Automated Medical Image Fusion Technique: Comparative Study with Fuzzy Fusion Approach
- 201 Dhanushya Ramachandran, Devika N.T. and Jaffar Ali B.M.. Insilico reaction kinetic model of shear stress induced eNOS activation in arterial endothelium

NaBIC SS8 (Special Session) Recent Advances in the development Of Particle Swarm Optimization for Global Optimization Problems Dec 09, 2009 17.45-19.30

- 32 musrrat ali and V.P. Singh. Inserting information sharing mechanism of PSO to improve the convergence of DE
- 24 Kusum Deep and Jagdish Chand Bansal. Optimization of Directional Overcurrent Relay Times Using Laplace Crossover Particle Swarm Optimization (LXPSO)
- 1 Radha Thangaraj, Millie Pant and Ajith Abraham. A New Diversity Guided Particle Swarm Optimization with Mutation
- 33 Sivakumar.K, balamurugan Balamurugan.C, Ramabalan.S and Venkata raman.S.B. Optimal concurrent dimensional and geometrical tolerancing based on evolutionary algorithms
- 11 Harikrishna Narasimhan. Parallel Artificial Bee Colony (PABC) Algorithm
- 19 Ritanjali Majhi, Ganapati Panda and Babita Majhi. Robust Prediction of Stock Indices using PSO based Adaptive Linear Combiner
- 8 Pierre Delisle, Marc Gravel and Michaël Krajecki. Multi-Colony Parallel Ant Colony Optimization on SMP and Multi-Core Computers

NaBIC SS9

Genetic Algorithms Dec 10, 2009 14.00-16.00

- 65 Ajit Kumar Sahoo, Ganapati Panda and Pyari Mohan Pradhan. Efficient Design of Pulse Compression Codes Using Multiobjective Genetic Algorithm
- 81 Mauricio Guevara and Edgar Emmanuel Valleja. An Approach for the Knapsack Problem Using Genetic Algorithms with Learning Capabilities
- 126 Tiejun Wu, Maozhen Li, Mahesh Ponraj and Man Qi. A Genetic Algorithm based Peer Selection Strategy for BitTorrent Networks
- 197 Shashi Barak, Kusum Deep and V.K Katiyar. Finding Stable Conformations of Small molecules using Real Coded Genetic Algorithm
- 258 Cosimo Birtolo, Paolo Pagano and Luigi Troiano. Evolving Colors in User Interfaces by Interactive Genetic Algorithm
- 259 Geetha Ramani R, Vasumathy Seenuvasan and Nishaa Bouvanasilan. A perspective view on Travelling Salesman Problem using Genetic Algorithm
- 261 Pravesh Kriplani and Luigi Troiano. Searching Co-Integrated Portfolios by a Genetic Algorithm
- 12 Vaclav Snasel, Ajith Abraham, Jiri Dvorsky, Eliska Ochodkova, Jan Platos and Pavel Kromer. Searching for Quasigroups for Hash Functions with Genetic Algorithms

NaBIC SS10

Hybrid Systems Dec 10, 2009 14.00-16.00

- 24 Hesam Izakian, Ajith Abraham and Václav Snášel. Fuzzy Clustering Using Hybrid Fuzzy c-means and Fuzzy Particle Swarm Optimization
- 112 Alefia khurshid and Alhad Gokhale. Classification System For Digital Signal Types Using Neuro Fuzzy System and PSO
- 218 Amit Paul and Jaya Sil. Sample selection of microarray data using Rough-Fuzzy based approach
- 223 Rajul Anand, Abhishek Vaid and Pramod K. Singh. Association Rule Mining Using Multi-objective Genetic Algorithms: Strengths and Challenges
- 230 Vaisakh K, Sridhar M and Linga Murthy K S. Differential Evolution Particle Swarm Optimization Algorithm for Reduction in Network Power Loss and Voltage Instability
- 271 R. A. Gupta, Rajesh Kumar and Rajesh Shankarrao Surjuse. An Adaptive Neuro-Fuzzy Based Speed Sensorless Induction Motor Drives
- 89 Rongyao Zheng. The Application of Discretization Based on Rough Set and Information Entropy in TCM

NaBIC SS11 Pattern Recognition/ Document and Text Analysis

Dec 10, 2009 14.00-16.00

- 157 Senhua Yu and Dipankar Dasgupta. An Empirical Study of Conserved Self Pattern Recognition Algorithm By Comparing to Other One-Class Classifiers and Evaluating With Various Random Number Generators
- 186 Alan Vella, David Corne and Chris Murphy. Hyper-heuristic Decision Tree Induction
- 237 Nathanael Costa, Amaury Brasil Filho, André Coelho and Plácido Pinheiro. Selecting Prototypes for Two Multicriteria Classification Methods: A Comparative Study
- 71 Sandeep Singh, Sangeeta Sabharwal and JP Gupta. Automatic Extraction of Events from Textual Requirements Specification
- 108 Supraja Jayakumar. A Spatial Approach to Perception Identification in Editorials
- 260 Luigi Troiano, gennaro cirillo, Cosimo Birtolo and Roberto Armenise. An Application of Bayesian Networks in Predicting Form Entries
- 93 Silviu Ionita. On the Intelligent Content Retrieval by Means of Text Relevance Modelling

NaBIC SS12

Finance / Differential Evolution

Dec 10, 2009 14.00-16.00

- 256 Dome Lohpetch and David Corne. Discovering Effective Technical Trading Rules with Genetic Programming: Towards Robustly Outperforming Buy-and-Hold
- 245 Anderson Pinho, Marley Vellasco and André Cruz. A New Model for Credit Approval Problems: A Quantum-Inspired Neuro-Evolutionary Algorithm with Binary-Real Representation
- 248 N.C Suganya and G.A Vijayalakshmi pai. Constrained Portfolio Rebalancing with Transaction Costs using Evolutionary Wavelet Hopfield Network Strategy
- 87 Radha Thangaraj, Millie Pant and Ajith Abraham. A Simple Adaptive Differential Evolution Algorithm
- 164 G. Jeyakumar and C. Shunmuga Velayutham. A Comparative Performance Analysis of Differential Evolution and Dynamic Differential Evolution Variants
- 166 Samrat L. Sabat, Layak Ali and Siba K. Udgata. Differential Evolution and Swarm Intelligence techniques for Analog Circuit Synthesis
- 194 Hideyuki Takagi and Denis Pallez. Paired Comparisons-based Interactive Differential Evolution

NaBIC SS13 Communication Networks Dec 10, 2009 17.15 - 19.00

- 33 Sayan Ghosh, Debarati Kundu, Kaushik Suresh, Swagatam Das and Ajith Abraham. Design of Optimal Digital IIR Filters by Using a Bandwidth Adaptive Harmony Search Algorithm
- 72 M.R. Lohokare, S.S. Pattnaik, Swapna Devi, B.K. Panigrahi, K.M. Bakwad and J.G. Joshi. Modified BBO and Calculation of Resonant Frequency of Circular Microstrip Antenna
- 88 Brijesh Kumar Chaurasia, Ajit Jaiswal, Geetam Singh Tomar and Shekhar Verma. Profile Based Mobility Model in Vehicular Ad- Hoc Networks
- 154 Anoj kumar, Krishn mishra and Arun Kumar Mishra. Optimizing the reliability of Communication Network Using specially designed Genetic Algorithm
- 9 Kevin Miller and Suresh Sankaranarayanan. Monitoring Patient Health using Policy based Agents in Wireless Body Sensor Mesh Networks

NaBIC SS14 Character & Handwriting Recognition / Biometrics

Dec 10, 2009 17.15 - 19.00

- 37 Jay Bhatnagar, Brejesh Lall and R K Patney. On Formulating a Probability of Random Correspondence of Biometrics Using Error Exponents
- 100 Prasad S. M., Govindan V. K. and Sathidevi P. S.. Palmprint Authentication Using Fusion of Wavelet Based Representations
- 127 Rajashekaradhya S. V and Vanaja Ranjan P. Zone-Based Hybrid Feature Extraction Algorithm for Handwritten Numeral Recognition of Two Popular Indian Scripts
- 131 Anima Majumder. Image processing Algorithms for Improved Character Recognition and Components Inspection
- 274 Asok Bandyopadhyay and Basabi Chakraborty. Development of Online Handwriting Recognition System : A Case Study with Handwritten Bangla Character

NaBIC SS15 Fuzzy Systems/ Data Mining and Information Retrieval

Dec 10, 2009 17.15 - 19.00

- 70 S.K. Sinha, R. N. Patel and R. Prasad. PSO Tuned Combined Optimal Fuzzy Controller for AGC of Two Area Interconnected Power System
- 36 Amit Jain, E. Srinivas and Rasmimayee Rauta. Short Term Load Forecasting using Fuzzy Adaptive Inference and Similarity
- 145 R. Rajeswari and R. Rajesh. Efficient Compression of 4D fMRI Images using Bandelet Transform and Fuzzy Thresholding
- 205 R. Nagendran and P. Arockia Jansi Rani. An Efficient Fuzzy Possibilistic code book design for Vector Quantization based Image Compression in the Wavelet Packet Domain
- 235 Joaquim Tinoco, António Gomes Correia and Cortez Paulo. A Data Mining Approach for Jet Grouting Uniaxial Compressive Strength Prediction
- 207 Habiba Drias, Dalal Daoudi and Samir Kechid. Large Scale Information Retrieval using a Scatter Search based Approach

NaBIC SS16 (Special Session) Applied Mathematics for Nature Inspired Computing Dec 10, 2009 17.15-19.00

- 6 Siti Mariyam Shamsuddin, Razana Alwee and Maslina Darus. Study of Cost Functions in Three Term Backpropagation for Classification Problems
- 10 Maslina Darus. DIFFERENTIAL SUBORDINATION ASSOCIATED WITH GENERALISED DERIVATIVE OPERATOR
- 23 Saiful Hafizah Jaaman, Shu Chiet Ng, Noriszura Ismail and Siti Mariyam Shamsuddin. Insolvency Prediction Model Using Artificial Neural Network for Malaysian General Insurers
- 26 Zalina Mohd. Ali, Munira Ismail and Nur Riza Mohd. Suradi. Customers' Satisfaction of Express Bus Service : Important-Performance Analysis (IPA) and Customer Satisfaction Index (CSI) Approach.
- 27 NORA MUDA. The performance of M-based Generalized Linear Model (GLM) Procedures based on the coverage probability
- 34 Zalina Mohd Ali and Faridatulazna Ahmad Shahabuddin Ahmad Shahabuddin. Water Quality Study at Skudai River, 2002 – 2006

NaBIC SS17 Evolutionary Computing Dec 11, 2009 09.00 - 10.45

- 40 Rituparna Datta and Kalyanmoy Deb. A Classical-cum-Evolutionary Multi-objective Optimization for Optimal Machining Parameters
- 114 Yu CHENG, Lan WANG and Jinglu HU. Nonlinear Polynomial Model Identification Using Multi-objective Evolutionary Optimization
- 187 Outi Räihä, Kai Koskimies and Erkki Mäkinen. Empirical Study on the Effect of Crossover in Genetic Software Architecture Synthesis
- 199 Zhihua Cui. Stochastic Velocity Threshold Inspired by Evolutionary Programming
- 213 Carlos Raimundo Erig Lima, Heitor Silvério Lopes and Leonardo Gomes Tavares. A Study of Topology in Insular Parallel Genetic Algorithms
- 244 Muhannad Hijaze and David Corne. An Investigation of Topologies and Migration Schemes for Asynchronous Distributed Evolutionary Algorithms
- 255 Luigi Troiano and Davide De Pasquale. A Java Library for Genetic Algorithms Addressing Memory and Time Issues
- 28 Michal Wozniak. Evolutionary Approach to Produce Classifier Ensemble Based on Weighted Voting

NaBIC SS18 Swarm Intelligence and PSO II Dec 11, 2009 09.00 - 10.45

- 123 Samrat L Sabat, Layak Ali, Siba K. Udgate, Adaptive Accelerated Exploration Particle Swarm Optimizer for Global Multimodal Functions
- 130 Sreelaja N.K and G.A.Vijayalakshmi Pai. Swarm intelligence approach of leaker identification In secure multicast
- 150 Abhinav Sadu, Rajesh Kumar and Rajesh Kavasseri. Optimal Placement of Phasor Measurement Units using Particle Swarm Optimization
- 231 Hongbo Liu, Ajith Abraham and Vaclav Snasel. Convergence Analysis of Swarm Algorithm
- 236 Satish Chandra, Rajesh Bhat and Harinder Singh. A PSO Based method for Detection of Brain Tumors from MRI
- 243 Hesam Izakian, Ajith Abraham and Václav Snášel. Clustering Categorical Data Using a Swarm-based Method

NaBIC SS19 Robotics Dec 11, 2009 09.00 - 10.45

- 171 Sifat Momen and Amanda Sharkey. Strategies of Division of Labour for Improving Task Efficiency in Multi-Robot Systems
- 204 Ke Cheng, Prithviraj Dasgupta and Yi Wang. Distributed Area Coverage Using Robot Flocks
- 206 Rahul kala, Anupam Shukla and RITU TIWARI. Fusion of Evolutionary Algorithms and Multi-Neuron Heuristic Search for Robotic Path Planning
- 215 Leonardo Gomes Tavares, Heitor Silvério Lopes and Carlos Raimundo Erig Lima. Construction and Improvement Heuristics applied to the Capacitated Vehicle
- 225 Ravi Kumar Jatoth and Venu Kishore kadiyala. Design and implementation of fractional order pid controller for Aerofin control system
- 238 Md. Ahsan Habib and Tasbirun Nahian Upal. A novel methodology for indoor positioning

NaBIC SS20 ACO/ Immune Systems Dec 11, 2009 09.00 - 10.45

- 74 Anindya Halder, Susmita Ghosh and Ashish Ghosh. Ant based supervised and unsupervised land use map generation of remotely sensed images
- 151 Raghavendra GS, Prasanna Kumar N and Amit Dharmaraj Borase. Performance Analysis of ACO Algorithm Using Fourier Transform
- 153 Omar GACI and Stefan BALEV. Ant Colony Approach to Predict Amino Acid Interaction Networks
- 227 Habiba Drias, Moufida Rahmani and Manel Khodja. ACO Approaches for Large Scale Information Retrieval
- 27 Hendrik Richter. Change detection in dynamic fitness landscapes: An immunological approach
- 63 Satyasai Jagannath Nanda, Sasmita Kumari Behera and Ganapati Panda. Development of a Nonlinear Model of Unijunction Transistor using Artificial Immune System
- 64 Sitanshu Sekhar Sahu, Ganapati Panda and Satyasai jagannath Nanda. Improved Protein Structural Class Prediction Using Genetic Algorithm and Artificial Immune System

NaBIC SS21**Clustering Dec 11, 2009 11.00 - 12.45**

- 17 Tamalika Chaira. A novel intuitionistic fuzzy c means color clustering of human cell images
- 80 Rosy Das, Dhruba Bhattacharyya and Jugal Kalita. An Incremental Clustering of Gene Expression data
- 110 Benhui CHEN and Jinglu HU. A Novel Clustering Based Niching EDA for Protein Folding
- 113 Nitin Lingayat, Sarabjeet Singh Mehta and Swati Sharma. Development of FCM based algorithm for the delineation of QRS-complexes in Electrocardiogram
- 152 Mrinal Sen, Sheli Sinha Chaudhury, Amit Konar and Ramadoss Janarathanan. An Evolutionary Gene Expression Microarray Clustering Algorithm Based on Optimized Experimental Conditions
- 272 Bhaskar Deosarkar, Narendra Singh Yadav and Rajendra Prasad Yadav. A Particle Swarm Approach for Uniform Cluster Distribution in Data Centric Wireless Sensor Networks

NaBIC SS22**Intelligent Systems Dec 11, 2009 11.00 – 12.45**

- 77 Xu lu, huiqiang wang and renjie zhou. Using Hessian Locally Linear Embedding for autonomic failure prediction
- 135 Harikrishna Narasimhan and Sanjeev Satheesh. A Randomized Iterative Improvement Algorithm for Photomosaic Generation
- 180 bhavna gupta, Dr. harmeet kaur and Dr. Punam Bedi. A Reputation based Service Provider Selection System for Farmers
- 228 Darsana Josyula, Franklin Hughes, Harish Vadali and Bette Donahue. Modeling Emotions for Choosing Between Deliberation and Action
- 250 Debasish Moitra, Prosenjit Das, Pushan Mitra and Biplab K Sikdar. Cost Optimal Design of 3-D Steel Building Frames Using CA-LFSR
- 252 Elpida Tzafestas. Spaces of Imitation
- 270 RADHA GUHA. The Changing Trend of User Applications and Operating System Design Objectives for Parallel Computing by Reconfigurable FPGAs
- 58 Sumit Singh and Ayushi Garg. Towards The Adaptive Questionnaire Generation Using Soft Computing

NaBIC SS23**Nature inspired Soft Computing Applications
Dec 11, 2009 11.00 – 12.45**

- 18 Savita Kolhe, Raj Kamal, Harvinder S. Saini and Girish Kumar Gupta. KMSCD:Knowledge Management System for Crop Diseases
- 22 Aditya Bir, Jyotsna Dongerdive, Suruchi Jamkhedkar and Siby Abraham. Building Consensus of Human Papillomavirus using Genetic Algorithm
- 35 Lingamurthy Beled, Amit Jain and Ravikanth Reddy Gaddam. Unit Commitment with Nature and Biologically Inspired Computing
- 31 Gerhard von der Emde, Kavita Mayekar, Herbert Bousack and Michael Pabst. Simulation of Bionic Electrolocation Sensor based on Weakly Electric Fish
- 15 Hugo Bulegon, Silvio Bortoleto and Angelmar Constantino Roman. Developing Through a Modeling of the Database and preparing for Data Mining: Implementation for EHR to Cardiovascular Monitoring
- 13 Carlos Henrique Kuretzki, Maria Eliana M. Schieferdecker, Jose Simao de Paula Pinto, Osvaldo Malafaia, Antonio Carlos Ligoeki Campos and silvio bortoleto. Utilization of the Apriori Data Mining method in a research software with electronic protocol in Enter
- 16 Luciano Roberto Hirano, Cláudia Seiko Yokoyama, Silvio Bortoleto and Hugo Bulegon. An information system for drug interactions: pharmaceutical care and prescription

CISIM 2009 Session Schedules

CISIM SS1 Computational Intelligence Dec 09, 2009 15.00-17.00

- 1 Jankisharan pahariya, ravi vadlamani and mahil carr. Software Cost Estimation using Computational Intelligence Techniques
- 22 Radha Thangaraj, Millie Pant and Ajith Abraham. Evolutionary Algorithms Based Speed Optimization of Servo Motor in Optical Disc Systems
- 47 Ditipriya Sinha and Rituparna Chaki. MALBACO - A New Multi-Agent Load Balanced Ant Colony Optimization Algorithm for MANETs
- 56 G. Jeyakumar and C. Shunmuga Velayutham. An Empirical Comparison of Differential Evolution Variants on Different Classes of Unconstrained Global Optimization Problems
- 57 Petr Klement. SOM Neural Network - a Piece of Intelligence in Disaster Management
- 58 D. K. Ashwin Raju and C. Shunmuga Velayutham. A Study on Genetic Algorithm based Video Abstraction System
- 104 Sarina Sulaiman, Siti Mariyam Shamsuddin and Ajith Abraham, Rough Neuro-PSO Web Caching and XML Prefetching for Accessing Facebook from Mobile Environment

CISIM SS2 Computational Models Dec 09, 2009 17.45-19.30

- 5 Sarada Dakua and Jyotinder Sahambi. Effect of beta in Random Walks Approach for LV Contour Extraction
- 43 Palaniappan Bagavathi Sivakumar and V P Mohandas. Modeling and Predicting Stock Returns using the ARFIMA-FIGARCH - A case study on Indian Stock data
- 51 Shunsuke Inenaga, Kenichirou Oyama and Hiroto Yasuura. Towards Modeling Stored-Value Electronic Money Systems
- 60 Marcelino Silva, Adamo Santana, Carlos Francés, Nandamudi Vijaykumar and Solon Carvalho. Obtaining a Continuous Time Markov Decision Process from Statecharts
- 63 Eduard Sojka, Jan Gaura, Tomáš Fabián and Michal Krumník. Active Contours without Edges and without Reinitialisation
- 69 Bidyut Biman Sarkar and Nabendu Chaki. Modeling & Analysis of Transaction Management for Distributed Database Environment using Petri Nets
- 75 Edmar H. Kampke, José E. C. Arroyo and André G. Santos. Reactive GRASP with path relinking for solving parallel machines scheduling problem with resource-assignable sequence dependent setup times

CISIM SS3 Intelligent Systems Dec 10, 2009 14.00-16.00

- 53 Tanish Zaveri, Mukesh Zaveri and Ishit Makwana. A NovelHybrid Multispectral Image Fusion Method using Contourlet Transform
- 54 DEEPA SANKAR and TESSAMMA THOMAS. Analysis of Mammograms using Fractal features
- 70 Arijit Sil, Oishila Bandyopadhyay and Nabendu Chaki. Data Diverse Fault Tolerant Architecture for Component Based Systems
- 72 Rahul Kala, Anupam Shukla and RITU TIWARI. Comparative Analysis of Intelligent Hybrid Systems for detection of PIMA Indian Diabetes
- 98 Seiji Sugiyama, Miyuki Shibata, Atsushi Ikuta, Susumu Saito and Seiki Miyashita. A Basic Concept of "Magnifying And Simplifying System f

CISIM SS4 Information Systems and Security Dec 10, 2009 17.15-19.00

- 4 Tribeni Prasad Banerjee, Amit Konar and Ajith Abraham. CAM Based High-Speed Compressed Data Communication System Development using FPGA
- 20 Eliska Ochodkova, Jiri Dvorsky, Vaclav Snasel and Ajith Abraham. Large Quasigroups in Cryptography and their properties Testing
- 79 Danilo Valeros Bernardo, Bee Bee Chua and Doan Hoang. Quantitative Security Risk Assessment (SRA) Method: An empirical case study
- 87 Annamalai Pandian and Ahad Ali. A Review of Recent Trends in Machine Diagnosis and Prognosis Algorithms
- 94 V.E. Asadchikov, A.I. Chulichkov, A.V. Buzmakov, M.V. Chukalina, D.P. Nikolaev, R.A. Senin and Gerald Schaefer. Morphological analysis and reconstruction techniques for computer tomography

CISIM SS5 Pattern Recognition I Dec 11, 2009 9.00-10.45

- 3 Khalid Saeed, Majida Bakoor and Fadel Sukkar. INTELLIGENT SYSTEM for ARABIC CHARACTER RECOGNITION
- 10 Yuan Yu, Shang Jingshan, Li Baoliang and Yao Shixuan. Signal Feature Extraction Base On Fractal Dimensions Of Time-Frequency Domain
- 12 Surya Bhagavan Chaluvadi and MVNK Prasad. Efficient Image Tamper Detection and Recovery Technique using Dual Watermark
- 13 E.V. Gopal, MVNK Prasad and V. Ravi. Evolutionary algorithms for fast and accurate watermark retrieval

CISIM SS6 Pattern Recognition II Dec 11, 2009 11.00-12.45

- 102 S. H Shaikh, N. Chaki, M. Tabezki, K. Saeed, A View-based Approach for Recognition of Bengali Printed Characters
- 45 Pavel Bhowmik, Sauvik Das and Amit Konar. A Support Vector Machine Classifier of Emotion from Voice and Facial Expression Data
- 37 Satish Kumar. A Three Tier Scheme for Devanagari Hand-printed Character Recognition
- 91 Piotr Porwik, Rafal Doroz and Krzysztof Wrobel. A new signature similarity measure

NaBIC -CISIM Poster Sessions I

Dec 09, 2009 17:15 – 17.45

NaBIC 2009

- 23 Tomislav Rolich and Darko Grundler. Genetic algorithm based reduction of electromagnetic field pollution
- 45 Abdul Jaleel, Gautham, Remya Surajan and Binu.L.S. A simplified Genetic Algorithm for online tuning of PID controller in LabView
- 62 Suhas nitsure, Shreenivas londhe and Kanchan khare. Application of Genetic Programming for Estimation of Ocean Wave Heights
- 188 Rushil Raghavjee and Nelishia Pillay. Evolving Solutions to the School Timetabling Problem
- 82 Jabri majed, Belgacem Abir and Jerbi Housseem. Moving horizon Parameter estimation of series dc motor using genetic algorithm
- 144 Hossein Hajimirsadeghi, Amin Ghazanfari, Ashkan Rahimi-Kian and Caro Lucas. Cooperative Coevolutionary Invasive Weed Optimization and its Application to Nash Equilibrium Search in Electricity Markets
- 161 Antariksha Bhaduri. A Mobile Robot Path Planning Using Genetic Artificial Immune Network
- 162 Antariksha Bhaduri. Credit Scoring using Artificial Immune System Algorithms: A Comparative Study
- 48 Siddarthraman.R, Vignesh Laligam Sundaresan, Ganesh Kumar. M. GaTMO: Game Theoretic Trust Model for Peer to Peer Networks
- 133 Wang Lan, Yu Cheng and Jinglu Hu. Adaptive Control for Nonlinear Systems Based on Quasi-ARX Neural Network
- 147 Bo ZHOU and Jinglu Hu. A Dynamic Pattern Recognition Approach Based on Neural Network for Stock Time-Series
- 257 Annadurai S, Kalyani T, Dare V.R and Thomas D.G. t - Communicating Iso-Array P System
- 239 Kalyna Mahata and Sukanta Das. Coordinator Selection in Distributed Systems: Cellular Automata Model Based Approach
- 241 Sulabh Bansal, Ashish Mani and Patvardhan C. Is Stochastic Ranking really better than Feasibility Rules for Constraint Handling in Evolutionary Algorithms?
- 34 Manikanta Buddala, Swagatam Das and B. K. Panigrahi. Real Parameter Multi-Objective Optimization With Harmony Search Algorithm

CISIM 2009

- 11 Arun Babu P, Sivakumaran M V and Dhavale N P. Auditing Public Key Infrastructure Systems: An agent based approach
- 26 Tribeni Prasad Banerjee and Joydeb Roychoudhury. Design Methodology Internal Sub State Observer Using CPLD
- 33 V.K. Panchal, Poonam Singh, Appoorv Narula, Ashutosh Mishra and Nitish Paliwal. Review on Ant Miners
- 34 Codruta Muresan. SORTING USING JAVASPACE TECHNOLOGY
- 36 Kota V.N.Sunitha and Nara Kalyani. A novel approach to improve rule based TELugu Morphological Analyzer
- 38 Benjamin Norman and Suresh Sankaranarayanan. Performance of Hierarchical Agent based Wireless Sensor Mesh Network for Patient He

NaBIC 2009

- 56 Brajesh Kumar Singh, K.K Mishra, Akash Punhani and Manorama Singh. Hybrid computational Method for Optimizing Isabgol Production
- 116 Subhamita Mukherjee, Indrajit Pan and Kashi Nath Dey. Traffic Organization by Utilization of Resources Through Grid Computing Concept
- 158 Saeid rafiei, Amir Abolfazl Suratgar, Avat Taherpour and Abolghasem Babaei. Design of decoder in quantum computing based on spin field effect
- 75 Roger Marshall. Modeling amino acid strings using electrical ladder circuits
- 94 Avishek Das, Suryasarathi Barat and DURJOY MAJUMDER. Systems Biology Markup Language for Cancer System
- 165 Samiksha Goel, VK Panchal and Mitul Bhatnagar. Biogeography Based Land Cover Feature Extraction
- 196 Pratik Chaudhari. Localization using Average Landmark Vector in the presence of clutter
- 220 R. Jeevarathinam Jeeva and Antony Selvadoss Thanamani Antony. Transaction Mapping Based Approach for Mining Software Specifications
- 221 Abolghasem Babaei and saeid rafiei. Application Of Neural Network To Estimation Dimension of Muscle Cracks In Eddy Current Testing
- 266 Madhuri Gupta and Kusum Deep. A State-of-the-art Review of Population-based Parallel Meta-heuristics
- 267 Kusum Deep, Pinkey Chauhan and Jagdish Chand Bansal. Solving Nonconvex Trim Loss Problem using an Efficient Hybrid Particle Swarm Optimization
- 200 sudhansu kumar mishra, Ganapati Panda and Sukadev Meher. Multiobjective Particle Swarm Optimization Approach to Portfolio Optimization
- 12 Jude Hemanth D, Kezi Selva Vijila C and Anitha j. Comparative Analysis of Neural Model and Fuzzy Model for MR Brain Tumor Image Segmentation
- 264 William Plant and Gerald Schaefer. An Overview of Neural Networks in Simulation Soccer
- 191 Veera Ragavan Sampath Kumar, Ganapathy Velappa and Ming Xian Chong. A Reconfigurable FPGA Framework for Data Fusion in UAV's

CISIM 2009

- 52 Ramesh Kumar PanneerSelvam. Pattern Extraction Methods for Ear Biometrics - A Survey
- 61 Porkodi ganesan and Dr.R.Arumuganathan Ramalingam. Group-oriented signature schemes based on Chinese remainder theorem
- Sandeep Raghuvanshi, Mr. R.K. Pateria and Dr.R.P. SIngh. A New Protocol Model for Verification of Payment Order Information
- 67 Integrity in Online E Payment System
- 78 Kanapathy maheswari. Receiver Based Packet Loss Replacement Technique for High Quality Voip Streams
- Jitendra Kumar Rai, Atul Negi, Rajeev Wankar and K. D. Nayak. Characterizing L2 Cache Behavior of Programs on
- 101 Multi-core Processors: Regression Models and Their Transferability

Doctoral Symposium papers Dec 08, 2009 14.00-16.00

- 3 Leo McHugh. PINNACLE: Using Neural Networks to Identify More Proteins in High-Throughput Proteomics
- 30 Sunita Sharma. Applications of Parallel Genetic Algorithms in Groundwater Contamination
- 25 Musrrat Ali MODIFIED DIFFERENTIAL EVOLUTION ALGORITHMS FOR GLOBAL OPTIMIZATION