

## Programme Schedule BICA '09

21 – 12 – 2009 9AM Inauguration

21 – 12 – 2009 10 AM

**Keynote Speech by Prof P N Suganthan**,  
School of Electrical and Electronic Engineering, Nanyang Technological University

**Session I 11 AM to 1 PM Dt. 21 – 12 – 2009**

**Theme : Biologically Inspired Algorithms**

**Session Chair: Prof P N Suganthan**

Department of Electronic Engineering, National Kaohsiung University of Applied Sciences, Taiwan

Sr No	Paper Id	Author(s)	Paper Name
1	21	Kamalakar bakwad, S.S. Pattnaik, B.S. Sohi, S. Devi,	Hybrid Bacterial Foraging with Parameter free PSO
2	32	Radha Thangaraj, Millie Pant Kusum Deep	Initializing PSO with Probability Distributions and Low-discrepancy Sequences: The Comparative Results
3	61	Krishnanand K.R. S K Nayak, B K Panigrahi Pravat Kumar Rout.	Comparative Study of Five Bio-Inspired Evolutionary Optimization Techniques
4	65	Swagatika Devi, Alok Kumar Jagadev, Satchidananda Dehuri Rajib Mall.	A Fresh Particle Swarm Optimizations: A Position Paper
5	77	Siddharth Pal, Anniruddha Basak Swagatam Das.	Constrained Real Parameter Optimization with an Ecologically Inspired Algorithm
6	97	Liping Xie, Jianchao Zeng, Zhihua Cui	General Framework of Artificial Physics Optimization Algorithm
7	24	M.R. Lohokare, S.S. Pattnaik, S Devi, B.K. Panigrahi, S. Das, K.M. Bakwad	Intelligent Biogeography-Based Optimization for Discrete Variables

**Session IA 11 AM to 1 PM Dt. 21 – 12 – 2009**

**Theme : Biologically Inspired Algorithms for Signal and Image processing**

**Session Chair: Prof Gerald Schaefer**

Department of Computer Science at Loughborough University, UK

Sr No	Paper Id	Author(s)	Paper Name
1	5	Rutuparna Panda.	EBFS-Fisher: An Efficient Algorithm for Image processing
2	20	Tirimula Rao Benala, Sree Durga Jampala, Sathya Harish Villa Bhargavi Konathala	A Novel Approach to Image Edge Enhancement Using Artificial Bee Colony Optimization Algorithm for Hybridized Smoothing Filters
3	47	Ganesan Kavitha Swaminathan Ramakrishnan	Identification and Analysis of Macula in Retinal Images using Ant Colony Optimization based Hybrid Method
4	54	Birendra Biswal, Pradipta Dash, Milan Biswal Nageswara Rao	TT-ACO BASED POWER SIGNAL CLASSIFIER

5	70	Ratnakar Dash Banshidhar Majhi.	Particle Swarm Optimization Based Regularization for Image Restoration
6	79	Sanjoy Das Ashish Ahuja Bala Natarajan B K Panigrahi	Multi-objective Optimization of Kullback-Leibler Divergence between Indus and Brahmi Writing: An Aid to Decipher the Indus Script
7	37	B B Choudhury B B Biswal Debudatta Mishra R N Mahapatra.	Appropriate Evolutionary Algorithm for Scheduling in FMS

**Dt. 21 – 12 – 2009, 2 PM to 3 PM**

**Keynote Speech By Prof Gerald Schafer**

**Session II: Dt. 21 – 12 – 2009, 3 PM to 4:15 PM**

**Theme: Biologically Inspired Algorithms: A Multi- objective framework and Application**

**Session Chair: Prof Zhihua Cui, Prof Raja Rajeswari**

Taiyuan University of Science and Technology, China

Sr No	Paper Id	Author(s)	Paper Name
1	80	Sanjoy Das, S Roychoudhury, B K Panigrahi, Shyam Pattnaik Swagatam Das.	Multi-objective Optimization with Uncertainty: Probabilistic and Fuzzy Approaches
2	19	Sidhartha Panda, A.K. Baliarsingh R.K. Sahu	Multi-Objective Optimization Technique for TCSC-Based Supplementary Damping Controller Design
3	46	Vaishak K Kanta Rao P.	Comparison and Application of Self-Tuning DE/HDE Based Algorithms to Solve Multi Objective Optimal Reactive Power Dispatch Problems
4	83	Vikas Baghel, Srihari Pathipati Ganapati Panda	An Efficient Multi-objective Pulse Radar Compression Technique using RBF and NSGA-II
6	111	Somanath Mishra, Akshaya Swain Bijaya Ketan Panigrahi.	Estimation of Lithologic Parameters from Seismic Data using Genetic Algorithm

**Session II (A)**

**Dt. 21 – 12 – 2009, 3 PM to 4:15 PM**

**Theme: Biologically Inspired Algorithms for Financial Application**

**Session Chair: Prof G Panda**

IIT Bhubaneswar

Sr No	Paper Id	Author(s)	Paper Name
1	60	Sujata Chakravarty Pradipta Kishore Dash	Forecasting Stock Market Indices Using Hybrid Network
2	103	Ritanjali Majhi, Babita Majhi, Minakshi Rout, Sashikala Mishra Ganapati Panda.	EFFICIENT SALES FORECASTING USING PSO BASED ADAPTIVE ARMA MODEL
3	104	Sudhansu K Mishra, Ganapati Panda, Sukadev Meher Abhishek Panda.	Comparative Performance Evaluation of Multiobjective Optimization Algorithms for Portfolio Management
4	105	Ritanjali Majhi, Babita Majhi, Manoj Ku. Mishra, Ganapati Panda Sushil Panigrahi.	Forecasting of Retail Sales Data using Differential Evolution

5	69	Ramakanta Mohanty V. Ravi Manas Ranjan Patra.	Software Reliability Prediction using Genetic Programming
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**Session III 4:30 PM to 6PM Dt. 21 – 12 – 2009**

**Theme: Biologically Inspired Algorithms: Power System Application**

**Session Chair: Prof P K Dash**

Director, Research, Silicon Institute of Technology, Bhubaneswar

Sr No	Paper Id	Author(s)	Paper Name
1	4	P K TIWARI YOG RAJ SOOD.	Optimal Location of FACTS Devices in Power System Using Genetic Algorithm
2	31	K Chandrasekaran Sishaj P Simon.	Unit commitment in Composite Generation and Transmission systems Using Genetic Algorithm
3	45	Vaisakh K Srinivas L R.	Unit Commitment By Genetic Evolving Ant Colony Optimization
4	57	Raseswari Pradhan Sidhartha Panda	Application of Genetic Algorithm based PSS for Two - Area AGC System in Deregulated Scenario
5	58	P K ROY, S P Ghoshal S S Thakur.	Biogeography Based Optimization to Solve Economic Load Dispatch Considering Valve Point Effects
6	109	Anil Kumar R, Siva Kumar G., Kalyan Kumar B. and Mahesh Kumar Mishra	Compensation of Voltage Sags and Harmonics with Phase-Jumps through DVR with minimum VA rating Using Particle Swarm Optimization
7	34	Sreejith S, Chandrasekaran K Sishaj P Simon	<a href="#">Touring Ant colony Optimization technique for Optimal Power Flow incorporating Thyristor Controlled Series Compensator</a>
8	119	P K Modi A K Mohapatra	PARTICLE SWARM OPTIMIZATION TRAINED NEURAL NETWORK FOR VOLTAGE STABILITY EVALUATION OF POWER SYSTEM
9	107	R.K.Swain, P.K.Hota, R.Chakravorti	Clonal Selection Based Dynamic Economic Dispatch in Deregulated Power system

**Session III (A) 4:30 PM to 6PM Dt. 21 – 12 – 2009**

**Theme: Biologically Inspired Algorithms: Electronics and Communication Engg**

**Session Chair: Prof S S Pattanaik**

NITTTR, Chandigarh

Sr No	Paper Id	Author(s)	Paper Name
1	68	D Mandal, S P Ghoshal A K Bhattacharjee	Application of Bio-Inspired Optimization Technique for Finding The Optimal set of Concentric Circular Antenna Array
2	71	Aruldoss Albert.	A Differential Evolution Algorithm for Restrictive Channel Routing Problem in VLSI Circuit Design
3	84	Ravi S Barpanda, Ashok K Turuk Bibhudatta sahoo.	A New Cost Function to Solve Routing and Wavelength Assignment Problem Using Genetic Algorithms
4	25	Om P Acharya, B Choudhury Amalendu Patnaik.	A PSO Application for Locating Defective Elements in Antenna Arrays
5	30	satish kumar jain, Sachindra Sinha Amalendu Patnaik.	Analysis of Coaxial Fed Dual Patch Multilayer X/Ku Band Antenna Using Artificial Neural Networks
6	116	Hitesh Mahapatra, Siba P Panigrahi, Prasant Kumar Patra	Bio-inspired Channel equalizers

**Dt. 22 – 12 – 2009**

**9 AM to 10 AM : Keynote Speech By Prof Jeng Shyang Pan**

**Session I 10:30 AM to 12 Noon Dt. 22 – 12 – 2009**

**Theme: Biologically Inspired Algorithms: Power System Application**

**Session Chair: Prof S P Simmon**

NIT Trichy

Sr No	Paper Id	Author(s)	Paper Name
1	59	P K ROY, S P Ghoshal S S Thakur	Turbulent Crazy Particle swarm Optimization Technique for Optimal Reactive Power Dispatch
2	62	S K Nayak, Krishnanand K.R., B K Panigrahi Pravat K Rout.	Application of Artificial Bee Colony to Economic Load Dispatch Problem with Ramp Rate Limits and Prohibited Operating Zones
3	100	Manish Tripathy, Ajit Barisal	Bacteria Foraging Algorithm based Economic Load Dispatch with Wind Energy
4	108	Gourab Ghosh Roy, PrithwishChakraborty, B K Panigrahi Manas K Mallick.	On Optimal Feature Selection for Improving the Performance of Probabilistic Neural Network and Classification of Power Quality Disturbances
5	6	A. Chatterjee, S.P. Ghoshal V. Mukherjee.	A Comparative Study of Single Input and Dual Input Power System Stabilizer by Hybrid Evolutionary Programming
6	26	Ashu Verma, B K Panigrahi Pradeep Bijwe	Transmission Network Expansion Planning with Adaptive Particle Swarm Optimization.
7	102	J.Preeetha Roselyn D.Devaraj	Improved Genetic Algorithm Approach for Voltage Stability Constrained Reactive Power Planning
8	117	S.Padmini, S S Dash A.Rathinam	Application of Euclidean Distance based Supervised and Competitive Learning Neural Network for Power flow Problem
9	50	Bidyadhar Subudhi, Debashisha Jena	Induction Motor Parameter Estimation Using Opposition Based Mutation Differential Evolution

**Session I (A) 10:30 AM to 12AM Dt. 22 – 12 – 2009**

**Theme: Biologically Inspired Computing and Application**

**Session Chair: Prof S K Udgata**

University of Hyderabad

Sr No	Paper Id	Author(s)	Paper Name
1	1	Hamed Samarghandi, Pouria Taabayan F F Jahantigh.	A Particle Swarm Optimization for the Single Row Facility Layout Problem
2	35	Musrrat Ali, Millie Pant Ajith Abraham.	A Hybrid Ant Colony Differential Evolution and its Application to Water Resources Problems
3	40	B K Gupta, Biswa M Acharya Manoj K Mishra.	Optimization of Routing Algorithm in Wireless Mesh Networks
4	42	Sumanta Panda, Debadutta Mishra Bibhuti Biswal.	An Appropriate Tool for Optimizing the Workspace of 3R Robot Manipulator
5	48	T Raj Chelliah, J.G Yadav, S.P. Srivastava Pramod Agarwal.	Optimal Energy Control of Induction Motor by Hybridization of Loss Model Controller Based on Particle Swarm Optimization and Search Controller
6	78	Geetika Salwan, Debadutta Mishra	A Neural Network Approach for Selection of Powder Metallurgy Process Parameter of Rapidly Solidified White Cast Iron

		Sanjibani Pani.	
7	110	Saraju P Mohanty Bijaya Ketan Panigrahi	ILP Based Leakage Optimization During Nano-CMOS RTL Synthesis: A DOXCMOS Versus DTCMOS Perspective

**Session II 12 Noon to 1: 30 PM Dt. 22 – 12 – 2009**

**Theme: Biologically Inspired Algorithms**

**Session Chair: Prof M K Tiwari**

Department of Industrial Engineering and Management, IIT, Kharagpur

Sr No	Paper Id	Author(s)	Paper Name
1	8	Sidhartha Panda, J.S. Yadav, N.P. Patidar J. Singhai.	Differential Evolution Algorithm for Model Reduction of SISO Discrete Systems
2	55	J. Nagendra Kumar Dirisala, S C Satapathy V. R. Murthy Jonnalagedda	A Scalable Genetic Programming Multi-class Ensemble Classifier
3	89	Siba K. Udgata, Samrat Sabat Mini S.	Sensor Deployment in Irregular Terrain Using Artificial Bee Colony algorithm
4	96	Debarati Kundu, Kaushik Suresh Swagatam Das.	Designing Fractional-order PI $\lambda$ D $\mu$ Controller Using a modified Invasive Weed Optimization Algorithm
5	106	Ashesh Kr. Sinha, H K Aditya, M Kumar Tiwari, F T S Chan	Multi-Agent Based Petroleum Supply Chain Coordination: A Co-Evolutionary Particle Swarm Optimization Approach
6	115	Gerald Schaefer Tomoharu Nakashima	A comparison of Michigan and Pittsburgh style hybrid fuzzy classifiers for gene expression analysis

**Session II (A) 12 Noon to 1: 30 PM Dt. 22 – 12 – 2009**

**Theme: Neural Networks**

**Session Chair : Dillip Pratihar**

Department of Mechanical Engineering, IIT Kharagpur

Sr No	Paper Id	Author(s)	Paper Name
1	10	G Pradhan, G V kalyan, S C Satapathy, S S Pattanaik Bhabatosh Mitra.	Minimal ANN (MANN) model for Data Classification
2	23	Pamela chaudhury, Madhuri Rao Vinod Kumar K	Symbol based concatenation approach for Text to Speech System for Hindi using vowel classification technique
3	29	Somak Datta Dilip Pratihar.	Modeling of Metal Inert Gas Welding Process Using Radial Basis Function Neural Networks
4	49	Jay Bhatnagar, R K Patney B Lall.	An Information Theoretic Approach for formulating Probability of Random Correspondence of Biometrics
5	76	Ajit Kr Nayak, S Champatirai, B Kumar Satpathy, V. Krishna Kumari Bijan Bihari Misra.	Estimation of physical properties of Calcined-Alumina using Swarm Evolved Neural Net
6	85	Harish C Das Dayal R. parhi	Application of Neural network for fault diagnosis of cracked cantilever beam