

Special Session on Swarm Intelligence for Global Optimization
2013 IEEE Symposium Series on Computational Intelligence
15 Mon -19 Fri April 2013, Singapore
Grand Copthorne Waterfront Hotel

CALL FOR PAPERS

Algorithms/ techniques based on Swarm Intelligence (SI) are based on the socio cooperative behavioral pattern displayed by various species like birds, bees, termites, ants etc. During the past decade, algorithms based on SI have emerged as potential candidates for solving complex and intricate global optimization problems which are otherwise difficult to solve by traditional methods. Some popular SI based techniques for Global Optimization include Ant Colony Optimization (ACO), Particle Swarm Optimization (PSO), Artificial Bee Colony (ABC), Firefly Algorithm (FFA), Fish School algorithm (FSA), Bacteria Foraging Optimization (BFO) algorithm etc. These methods have been successfully applied to a wide range of benchmark and real-world application problems. This special session seeks to bring forward and highlight the latest developments in this promising research area by bringing together researchers and practitioners of diverse fields. Authors are invited to submit their original and unpublished work to this Special Session. Topics of interest include, but are not limited to:

- Theory of SI based optimization algorithms (SIOA)
- Parameter settings in SIOA
- Multi-objective SIOA
- SIOA for noisy problems
- SIOA for constrained optimization
- Hybridization of SIOA with local search and other soft computing approaches
- Comparison of various SIOA
- Parallel implementation of SIOA
- Real world/ novel applications
- New concepts for SIOA

IMPORTANT DATES

Paper submission: 10 Oct 2012
Decision: 05 Jan 2013
Final submission: 05 Feb 2013
Early Registration: 05 Feb 2013

Track Chairs

Dr. Kusum Deep, Associate Professor, Mathematics Department, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India. Mail: kusumfma@iitr.ernet.in

Dr. Millie Pant, Assistant Professor, Department of Paper Technology, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India. Mail: millifpt@iitr.ernet.in

For more information visit

http://www.ntu.edu.sg/home/epnsugan/index_files/SSCI2013/index.html