**Special Session on** 

Recent Advances in the development Particle Swarm Optimization for Global Optimization

**Problems** 

World Congress on Nature and Biologically Inspired Computing (NaBIC'09), Coimbatore, India,

Call for papers

Most of the real life problems occurring in the field of science and engineering may be modeled

as nonlinear optimization problems, which may be Unimodal or multimodal. Multimodal

problems are generally considered more difficult to solve because of the presence of several

local and global optima. Generally the user is interested in determining the global solution of

the problem. Particle Swarm Optimization is an attractive global optimization method inspired

the socio-cooperative behavior shown by various species. It is a relatively a newer addition to

the class of evolutionary computation family. This method has been successfully applied to a

wide range of 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. Authors are invited to submit their original and unpublished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 Particle Swarm Optimization

Parameter settings

Adaptive Particle Swarm Optimization

Multi-objective Particle Swarm Optimization

Particle Swarm Optimization for noisy problems

Particle Swarm Optimization for constrained optimization

Hybridization of Particle Swarm Optimization with local search and other soft computing

approaches

Comparison of Particle Swarm Optimization with other Techniques

Parallel implementation

Real world/ novel applications

Organizers

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