

## Call for Papers

# Special Session on Computational Intelligence in Global Optimization

In Conjunction with 4<sup>th</sup> International Conference on

## Soft Computing for Problem Solving

December 27<sup>th</sup> – 29<sup>th</sup>, 2014, NIT Silchar, Assam

Computational Intelligence (CI), set of nature inspired computational methodologies, is widely used in solving global optimization problems and is largely addressed in different research fields arising in Science, Engineering, and Management.

This special session aims to bring together researchers, scientists, academicians from the areas of computational intelligence to discuss how computational intelligence techniques can be used individually or in combination to help solve challenging affective computing problems, and its modeling can inspire new approaches in computational intelligence and its applications.

It is indeed of great interest for the scientific community to understand how and to what extent novel CI techniques can be efficiently employed in finding solution for Complex real life problems. The aim of this session is therefore to offer a CI oriented look at the large variety of global optimization topics and applications and to discuss the most recent efforts.

We welcome papers that employ novel approaches. Authors are invited to submit their research and unpublished work to this special session. Topics of interest include, but are not limited to, the following:

### Problems

- Foundations of CI
- Analysis & Identification;
- Modeling & Design;
- Methods & techniques of CI
- Hybridization;
- Simulation & Estimation;
- Search & Optimization  
(combinatorial, stochastic, dynamic, multimodal, multi-objective, etc);
- Constraint handling (Routing, Scheduling, Timetabling, allocation Neighboring, Placement, etc);

### Approaches

- Evolutionary & Swarm Computation:
- Neural & Learning Systems:
- Fuzzy & Stochastic Modeling:

### Technologies

- Ant colony optimization;
- Particle swarm optimization;
- Fish School Search;
- Bee colony optimization;
- Genetic programming and Genetic algorithms;
- Cultural Algorithms and Co-Evolution;
- Evolutionary Strategy and Differential Evolution;
- Evolutionary design & scheduling;
- Danger theory and network immune systems;
- Firefly optimization;
- Glowworm Swarm Optimization;

### Important Dates

Paper Submission : **May 31, 2014**  
Notification of Acceptance : **July 20, 2014**  
Camera-ready : **August 10, 2014**  
Registration : **September 30, 2014**

### Publication

Springer  
Or IEEE

### Track Chairs

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