



Call for Papers

Special Session Organizers

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Session Program Committee

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Important Dates

Submission Deadline:
February 7, 2004
Author Notification:
March 8, 2004
Camera-ready Papers:
March 21, 2004

CEC2004 Web Site

<http://cec2004.org/>

Special Session on Evolutionary Optimization in Dynamic Environments

2004 Congress on Evolutionary Computation

June 19-23, 2004, Portland, Oregon, USA

Sponsored by the IEEE Neural Networks Society, IEE,
and Evolutionary Programming Society

Many real-world optimization problems are non-deterministic and subject to changes over time with respect to the objective function, decision variables, and/or environmental parameters. For dynamic optimization problems, the goal of an optimization algorithm is no longer to find a (stationary) optimal solution, but to continuously track the optimum in the dynamic environment. This presents serious challenges to traditional optimization techniques and conventional evolutionary algorithms.

This special session aims at bringing researchers from academia and industry together to review the latest advances and explore future directions in the field of evolutionary optimization in dynamic environments. Topics of interest include but are not limited to:

- Benchmark problems and performance measures
- Dynamic multi-objective optimization
- Adaptation, learning, and anticipation
- Search for robust solutions
- Comparative studies
- Hybrid approaches
- Theoretical analysis
- Real-world applications

Paper Submission: Papers should follow the same formatting as CEC2004 regular papers and should be no more than 8 pages. Papers should be submitted in PDF format through the regular CEC2004 submission website. Special session papers will be treated in the same way as regular papers and included in the conference proceedings.