

Special Issue on
Theoretical Aspects of Evolutionary Multi-Objective Optimization
Evolutionary Computation Journal, MIT Press
<http://ecj.lri.fr/>
SUBMISSION DEADLINE: FEBRUARY 28, 2009.

Associate Editor:

Thomas Jansen, Technische Universität Dortmund, thomas.jansen@tu-dortmund.de

Guest Editor:

Frank Neumann, Max-Planck-Institute for Informatics, fne@mpi-inf.mpg.de

Description:

Evolutionary computation methods have been shown to be very successful when dealing with problems from multi-objective optimization. They are good problem solvers as not a single solution but a set of solutions should be obtained. In recent years, a lot of progress has been made in understanding evolutionary computation methods for multi-objective optimization from a theoretical point of view.

This special issue solicits novel high-quality scientific contributions on theoretical or foundational aspects of Evolutionary Multi-Objective Optimization (EMO). While papers on any theoretical or foundational aspect of EMO are welcome, of special interest are submissions on:

- Convergence and runtime results for continuous search spaces
- Runtime results for discrete search spaces
- Evolutionary Multi-Objective Combinatorial Optimization
- EMO performance measures and analysis
- Indicator-based algorithms
- Problems with many objectives
- Formal models
- Diversity mechanisms
- Theoretically motivated comparative experimental studies

Authors are invited to submit original work on topics relevant for this special issue. The publication of the special issue is tentatively scheduled for Spring 2010.

Submission:

Authors should submit their manuscripts to the Evolutionary Computation Editorial Manager at <http://ecj.lri.fr/>. When submitting a paper, please send at the same time also an email to Frank Neumann (fne@mpi-inf.mpg.de) with paper title and author list to inform about the submission.