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CALL FOR PAPERS

EvoCOP 2010

The Tenth European Conference on Evolutionary Computation
and Metaheuristics in Combinatorial Optimization

Istanbul, Turkey, 7-9 April 2010

(Submission deadline 4th November 2009)

http://www.evostar.org

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Topics

Metaheuristics are used to solve difficult combinatorial optimization
problems appearing in various industrial, economic, and scientific
domains. Prominent examples of metaheuristics include: evolutionary
algorithms, simulated annealing, tabu search, scatter search and path
relinking, memetic algorithms, ant colony and particle swarm optimization,
variable neighborhood search, iterated local search, greedy randomized
adaptive search procedures, estimation of distribution algorithms, and
hyperheuristics.
Successfully solved problems include scheduling, timetabling, network
design, transportation and distribution problems, vehicle routing,
traveling salesman, graph problems, satisfiability, packing problems,
planning problems, and general mixed integer programming.

The EvoCOP series, started in 2001 and held annually since then, was the
first event specifically dedicated to the application of evolutionary
computation and related methods to combinatorial optimization problems.
Following the general trend of hybrid metaheuristics and diminishing
boundaries between the different classes of metaheuristics, EvoCOP
broadened its scope in 2006, and now explicitly invites submissions on any
kind of metaheuristic for combinatorial optimization. All accepted papers
will be presented orally at the conference and printed in the proceedings
published by Springer in the LNCS series (see LNCS volumes 2037, 2279,
2611, 3004, 3448, 3906, 4446, 4972 and 5482 for the previous proceedings).

Topics of interest include, but are not limited to:

- Applications of metaheuristics to combinatorial optimization problems
- Novel application domains for metaheuristic optimisation methods
- Representation techniques
- Neighborhoods and efficient algorithms for searching them
- Variation operators for stochastic search methods
- Constraint-handling techniques

- Hybrid methods and hybridization techniques
- Parallelization
- Theoretical developments
- Search space analyses
- Comparisons between different (also exact) techniques
- Automated tuning of metaheuristics using machine learning, evolutionary and other approaches

The conference will be held in conjunction with EuroGP2010 (the 13th European Conference on Genetic Programming), EvoBIO 2010 (the 8th European Conference on Evolutionary Computation, Machine Learning and Data Mining in Bioinformatics), and EvoWorkshops 2010 (including specialist workshops on a range of evolutionary computation topics and applications), in a joint event collectively known as EvoStar 2010.

Submission

Submissions will be done electronically using the online submission service.
More details will be available at the conference website

http://www.evostar.org

Papers must be formatted following Springer LNCS guidelines, with no more than 12 pages. The submission deadline is 4th November, 2009.

IMPORTANT: The reviewing process will be double-blind, so please omit information about the authors in the submitted paper. The submissions will be peer reviewed by at least three members of the program committee.

Program Chairs

Peter Cowling (University of Bradford, UK)
Peter Merz (Technical University of Kaiserslautern, Germany)

More Information

More detailed information on the event, including venue, committees, contact addresses,
etc., can be found at the Evo* homepage:

http://www.evostar.org