

IEEE Congress on Evolutionary Computation

Trondheim, Norway, 18th-21st May, 2009

Special Session on Evolutionary Computation in Scheduling and Planning

Scheduling and planning problems are generally complex, constrained and multi-objective. The application of evolution-inspired, meta-heuristic and other soft computing techniques to this problem domain has received considerable attention from the research community.

This special session on Evolutionary Computation in Scheduling and Planning (ECSP) seeks to bring together researchers from around the globe for a creative discussion on recent advances and challenges facing ECSP research. The special session on ECSP (<http://www.itee.adfa.edu.au/~alar/ecsp08/>) is organized within IEEE CEC 2009 (<http://www.cec2009.org>).

We invite authors to submit their original and unpublished work on recent advances and novel applications in ECSP. The special session will focus on evolutionary computation techniques for problems related to, but not limited to, the following topics:

- Theory of scheduling /planning for evolutionary and meta-heuristic approaches.
- Analysis and characterization of scheduling /planning problems
- Planning/scheduling benchmark problems and metrics
- Representations for evolutionary scheduling /planning
- Multi-objective evolutionary and meta-heuristic scheduling /planning
- Scheduling /planning under uncertainty using evolutionary and meta-heuristic approaches.
- Short/long -term planning
- Hybridization of evolutionary and meta-heuristic methods with other approaches for scheduling /planning.
- Real world applications in scheduling /planning.
- Modeling uncertainty for long-term planning
- Generating robust plans /schedules using lessons from nature

Paper Submission

Papers submitted for this session will be peer-reviewed with the same criteria used for other contributed papers. The paper format of the conference is available on the website: <http://www.cec2009.org>. After the final decision is made, authors will receive a

notification letter accompanied with the reports of the reviewers. All accepted papers will be published along with all accepted papers at IEEE CEC 2009 and at least one of the authors must register and attend to present his/her paper at IEEE CEC 2009.

All papers will be submitted via the IEEE CEC submission system. Please follow the instructions carefully to upload your papers. If you experience any difficulty, please feel free to contact us directly.

Post-conference

Following IEEE CEC the organisers of the special session intend to publish either a book volume or special journal issue. Authors of accepted papers in this special session might be invited to extend their work for the journal (or book) publication.

Organizers:

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Important Dates

*Paper Submission: **November 1st, 2008***

*Notification of acceptance/rejection: **January 16th, 2009***

*Camera-ready submission: **February 16th, 2009***