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Call for Papers

ICAPS 2015 Constraint Satisfaction Techniques for Planning and Scheduling Problems (COPLAS)

Jerusalem, Israel June 7-8, 2015

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The workshop aims at providing a forum to discuss novel issues on planning, scheduling, and constraint satisfaction problems. Solutions to many real-world problems need to integrate plan synthesis capabilities with time and resource allocation, which can be efficiently managed by constraint satisfaction and OR techniques. Formulations of P&S problems as CSPs, resource and temporal global constraints, and inference techniques are of particular interest of COPLAS.

**Objectives and Topics**

The areas of AI planning and scheduling have seen important advances thanks to the application of constraint satisfaction models and techniques. Especially solutions to many real-world problems need to integrate plan synthesis capabilities with resource allocation, which can be efficiently managed by using constraint satisfaction techniques. The workshop will aim at providing a forum for researchers in the field of Artificial Intelligence to discuss novel issues on planning, scheduling, constraint programming/constraint satisfaction problems (CSPs) and many other common areas that exist among them. On the whole, the workshop will mainly focus on managing complex problems where planning, scheduling and constraint satisfaction must be combined and/or interrelated, which entails an enormous potential for practical applications and future research. COPLAS is ranked as CORE B in ERA Conference Ranking and it is covered in selected Elsevier database products.

We invite submissions on any topic relevant to the workshop, particularly those that combine techniques from both perspectives, planning & scheduling, and constraint programming. This includes but is not limited to:

1. Planning (constraint management, temporal planning, multi-criteria planning, planning with resources, reformulations to CSP etc.),
2. Scheduling (global constraints, innovative models, robust solutions, energy efficient scheduling, etc.),
3. Integration of planning and scheduling (from a CSP perspective),
4. Temporal CSPs.
5. Multiobjective planning and scheduling.
6. Metaheuristics techniques
7. Hybrid CP and OR techniques for P&S.
8. Real life applications

We are pleased to accept papers based on recent publications from other (non ICAPS) venues such as specialized conferences (CP, CP-AI-OR, AAMAS, ...), or general AI conferences (AAAI, IJCAI, ECAI, ...). This must be however clearly indicated in the submitted paper.

**Submissions**

Papers must be prepared according to the instructions for ICAPS-15 (in AAAI format) available at <http://www.aaai.org/Publications/Author/author.php> and must be no more than ten (10) pages long, including figures and bibliography. Papers must be in the PDF format and should be submitted via the EasyChair conference system (<https://www.easychair.org/conferences/?conf=coplas15>). Every submitted paper will be reviewed by at least two members of the Program Committee. Late submissions must be consulted with the workshop organizers prior the submission deadline.

Accepted papers will be included in the workshop notes.

Selected papers will be published in different international journals: Knowledge Engineering Review and Iberoamerican Journal of Artificial Intelligence.

**Deadlines**

Submission deadline: March 1, 2015
Notification: March 25, 2015
Final version: March 30, 2015
Workshop: TBA

**Workshop Program Chairs**

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