ICAPS 2017 Call for Papers

The 27th International Conference on Automated Planning and Scheduling
June 18-23, 2017, Carnegie Mellon University, Pittsburgh, United States.

Website: http://icaps17.icaps-conference.org/

ICAPS 2017, the 27th International Conference on Automated Planning and Scheduling, will take place in Pittsburgh, at Carnegie Mellon University in June 2017. ICAPS 2017 is part of the ICAPS conference series, the premier forum for exchanging news and research results on theory and applications of intelligent and automated planning and scheduling technology. The ICAPS 2017 program committee invites paper submissions related to automated planning and scheduling. Relevant contributions include, but are not limited to:

- Theoretical and empirical studies of planning and scheduling problems and algorithms;
- Novel techniques and approaches that extend the scope and scale of problems that can be solved;
- Analytic and implemented tools supporting automated planning and scheduling; and
- Studies of applying automated planning and scheduling technologies to significant problems with deep technical insight.

Special Tracks:

ICAPS 2017 will continue to host special tracks in the following areas:

- **Robotics**: Planning, execution, and coordination for individual or teams of robots, at the level of tasks, behaviors and motions; applications in autonomous, mixed-initiative, and human-robot interactive systems; preference for techniques demonstrated on actual robot systems.
- **Novel Applications**: Emerging and deployed applications, case studies and lessons learned.
- **ICAPS 2017 will host a new special track in Planning and Learning.**

Additionally, the ICAPS program will include journal presentations, workshops and tutorials, each having separate submission and notification dates, to be announced separately.

Author Guidelines

Authors may submit long papers (8 pages AAAI style plus up to one page of references) or short papers (4 pages plus up to one page of references). The type of paper must be indicated at submission time. For more information, see icaps17.icaps-conference.org.

All papers, regardless of length, will be reviewed against the standard criteria of relevance, originality, significance, clarity and soundness, and are expected to meet the same high standards set by ICAPS. Short papers may be of narrower scope, for example by addressing a highly specific issue, or proposing or evaluating a small, yet important, extension of previous work or new idea.

Authors making multiple submissions must ensure that each submission has significant unique content. Papers submitted to ICAPS'17 may not be submitted to other conferences or journals during the ICAPS'17 review period nor may they be already under review or published in other conferences or journals. Overlength papers will be rejected without review.

Topics include, but are not limited to:

- applications and case studies of planning and scheduling techniques
- uncertainty and stochasticity in planning and scheduling
- partially observable and unobservable domains
- conformant, contingent and adversarial planning
- plan and schedule execution, monitoring and repair
- continuous planning, on-line and real-time domains
- plan recognition, plan management and goal reasoning
- classical planning techniques and analysis
- continuous state and action spaces
- multi-agent and distributed planning
- domain modelling, knowledge acquisition and engineering
- learning for planning and scheduling

Submission Instructions

All submissions will be made electronically, through the EasyChair conference system:
https://www.easychair.org/conferences/?conf=icaps2017
Submitted PDF papers should be anonymous for double-blind reviewing, adhere to the page limits of the relevant track CFP/submission type (long or short), and follow the AAAI author kit instructions for formatting:
http://www.aaai.org/Publications/Author/author.php
In addition to the submitted PDF paper, authors can additionally submit supplementary material (videos, technical proofs, additional experimental results) for their paper. Please make sure that the supporting material is also anonymized. Papers should be self-contained; reviewers are encouraged, but not obligated, to consider supporting material in their decision.

Important Dates

Abstract Submission: November 18, 2016
Paper Submission: November 22, 2016
Author Notification: January 26, 2017

The reference timezone for all deadlines is UTC-12. That is, as long as there is still some place anywhere in the world where the deadline has not yet passed, you are on time!

Organizing Committee

Conference Chairs

- Stephen F. Smith, Carnegie Mellon University
- Laura Barbulescu, Carnegie Mellon University

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- Jeremy Frank, NASA Ames Research Center
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- Michael Littman, Brown University, USA
- Alan Fern, Oregon State University, USA

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- AndreA Orlandini, National Research Council, Italy
- Federico Pecora, Örebro University, Sweden
- Reid Simmons, Carnegie Mellon University, USA

Journal Track Chair

- Sara Bernardini, King's College London, UK

Please direct all questions to icaps-2017@lists.andrew.cmu.edu