

23rd International Joint Conference on Artificial Intelligence IJCAI-13, Beijing, China August 5-9, 2013

Call for papers

Submission website: <http://ijcai2013.confmaster.net/>

Detailed submission instructions are on the IJCAI 2013 website: http://ijcai13.org/submission_instructions

The IJCAI 2013 Program Committee invites submissions of technical papers for IJCAI 2013, to be held in Beijing, China, on August 3-9, 2013. Submissions are invited on significant, original, and previously unpublished research on all aspects of artificial intelligence.

The theme of IJCAI 2013 is "AI and computational sustainability". AI can play a key role in addressing environmental, economic, and societal challenges concerning sustainable development and a sustainable future. AI techniques and methodologies can be exploited to help address sustainability problems and questions, for example to increase the efficiency and effectiveness of the way we manage and allocate our natural and societal resources. The study of sustainability questions will also enrich and transform AI, by providing new challenges. The conference will include a special track dedicated to papers concerned with all these aspects (see below the call for paper for this track).

Important dates

- Abstract submission: January 26, 2013 (11:59PM, UTC-12).
- Paper submission: January 31, 2013 (11:59PM, UTC-12).
- Author feedback: March 4-6, 2013 (11:59PM, UTC-12).
- Notification of acceptance/rejection: April 2, 2013.
- Camera-ready copy due: Apr 23, 2013.
- Technical sessions: August 3-9, 2013.

Submission Details

Submitted papers must be formatted according to IJCAI guidelines and submitted electronically through the IJCAI 2013 paper submission site. Full instructions including formatting guidelines and electronic templates are available on the IJCAI 2013 website: <http://ijcai13.org/files/ijcai13.zip>. Submission is only electronic using the IJCAI 2013 paper submission software linked here.

Papers will be accepted for either oral or poster presentation, or both. However, no distinction will be made between accepted papers in the conference proceedings. At least one author of each accepted paper is required to attend the conference to present the work. Authors will be required to agree to this requirement at the time of submission.

The paper title, author names, contact details, and a brief abstract must be submitted electronically by January 26, 2013 (11:59 UTC-12). Authors will also be required to indicate if their submission is for the special track on "AI and Computational Sustainability" (AICS), in which case authors are required to clarify the relevance to this theme. All technical papers are due electronically on January 31, 2013 (11:59 UTC-12). Submissions received after the deadline or that do not meet the length or formatting requirements will not be considered for review. No email or fax submissions will be accepted. Notification of receipt of an electronically submitted paper will be emailed to the designated contact author soon after receipt. If there are problems with the electronic submission, the program chair will contact the designated author by email. The last day for enquiries regarding lost submissions is February 4, 2013. The designated author will be emailed notification of acceptance or rejection by April 2, 2013.

Authors will also be able to respond to preliminary reviews during the period March 4-6, 2013. Guidelines for such responses, along with details of the reviewing process will be posted on the IJCAI 2013 website. Camera-ready copy of accepted papers must be received by the publisher by April 23, 2013.

Authors who do not have access to the web should contact the program chair at pcchair13@ijcai.org no later than January 1, 2013 for alternative submission instructions.

Content Areas

When submitting their abstract, authors will be required to choose at least two and at most four content area keywords. General categories should only be used if specific categories do not apply or do not accurately reflect the main contributions. Each keyword is placed within one of ten major areas; however, many of the keywords cut across multiple areas, and authors should feel free to select keywords from multiple areas.

Policy on Multiple Submissions

IJCAI 2013 will not accept any paper which, at the time of submission, is under review for or has already been published, or accepted for publication, in a journal or another conference. Authors are also required not to submit their papers elsewhere during IJCAI-13 review period. These restrictions apply only to journals and conferences, not to workshops and similar specialized presentations with a limited audience and without archival proceedings. Authors will be required to confirm that their submissions conform to these requirements at the time of submission.

Confidentiality policy

All submissions will be treated in strict confidence until the publication date.

Conflict of interest policy

All people involved in the IJCAI 2013 review process adhere to the IJCAI conflict of interest policy. Details can be found at <http://ijcai.org/aboutijcai.php>

Paper Length and Format

Submitted technical papers must be no longer than six pages, including all figures but excluding references, and must be formatted according to posted IJCAI 2013 guidelines. References can be up to one page. Papers must be formatted for letter-size (8.5 x 11) paper, in double-column format with a 10pt font. Electronic templates for the LaTeX typesetting package, as well as a Word template, that conform to IJCAI 2013 guidelines will be made available at the conference website in December 2012.

Authors are required to submit their electronic papers in PDF format. Files in Postscript (ps) or any other format will not be accepted.

Over-length papers will not be considered for review. Each accepted paper will be allowed six pages in the proceedings plus at most one additional page for references; up to two additional pages may be purchased at a price of \$275 per page.

In order to make blind reviewing possible, authors must omit their names and affiliations from the paper. Also, while the references should include all published literature relevant to the paper, including previous works of the authors, it should not include unpublished works. When referring to one's own work, use the third person rather than the first person. For example, say "Previously, Foo and Bar [7] have shown that...", rather than "In our previous work [7] we have shown that...". Such identifying information can be added back to the final camera-ready version of accepted papers.

Review Process

Papers will be subject to blind peer review. Selection criteria include accuracy and originality of ideas, clarity and significance of results and quality of presentation. AICS papers will be judged based on the usual measures of quality, with consideration of the relevance to the theme and the potential impact on sustainability problems.

The review process will include a short period for the authors to view reviews and respond to technical questions on the submitted work raised by the reviewers before discussion starts within the Program Committee. The decision of the Program Committee will be final and cannot be appealed.

For more submission details, please consult http://ijcai13.org/calls/call_for_papers. Please send enquiries about paper submissions to Francesca Rossi, Program Chair IJCAI 2013, pcchair13@ijcai.org.

IJCAI 2013 AI and Computational Sustainability (AICS) Track: Call for Papers

Computational Sustainability aims to apply computational techniques to the balancing of environmental, economic, and societal needs, in order to support sustainable development and a sustainable future. Research in computational sustainability is inherently interdisciplinary: It brings together computational sciences and other fields such as environmental sciences, biology, economics, and sociology. AI techniques and methodologies can be instrumental in addressing sustainability problems and questions, for example to increase the efficiency and effectiveness of the way we manage and allocate our natural and societal resources. This will also enrich and transform AI, by providing new challenges.

Sustainability domains include the following:

- Natural resources and the environment (such as water, atmosphere, oceans, forest, land, etc.)
- Economics and human behavior (such as well-being, poverty, diseases, over-population, etc.)
- Energy resources (for example, renewable energy, smart grid, and so on.)
- Human-built systems and land use (such as transportation, cities, buildings, agriculture, etc.)
- Climate (such as climate prediction, impact of and on climate, etc.)

This special track is dedicated to papers concerned with innovative notions, models, algorithms, techniques, methodologies, and systems, in order to address problems in computational sustainability. Papers can range from formal analysis to applied research. Papers describing interesting sustainability problems and data sets, or papers proposing general challenges and competitions for computational sustainability, are also welcome.

The AICS track welcomes two types of articles:

- technical AICS papers, showing how AI can be instrumental in addressing sustainability questions;
- data challenge papers, providing the description of a new sustainability problem as well as the corresponding data set to be made available to the AI community.

Technical AICS papers must follow the instructions given in the general call for technical conference papers. Dataset papers should be up to three pages in length, included figures and references. Please indicate that your paper is a dataset paper by selecting this paper type in the submission site.

There will be specific keywords for the AICS track. When registering a paper, authors should select at least one keyword from the AICS list and at least one keyword from the general IJCAI 2013 list.

Submitted papers in the AICS track will be reviewed by qualified reviewers drawn from a special track committee as well as the general program committee. AICS papers will be judged based on the usual measures of quality, with consideration of the relevance to the theme and the potential impact on sustainability problems. Submissions to this special track that are deemed not to be relevant may be considered for review in the general technical papers track at the discretion of the chairs. Papers are submitted via the same submission Web site as the main technical track, where the "Special Track on Artificial Intelligence and Computational Sustainability" option should be selected after logging in. For more submission details, please consult http://ijcai13.org/calls/call_for_papers. For questions, please email the AICS Track Chair, Carla Gomes, at aicschair13@ijcai.org.

Computational Sustainability Awards

IJCAI 2013 is joining with the Computing Community Consortium (CCC) to promote work at the intersection of computing and sustainability on principles and applications that address environmental, economic, and societal needs in support of a sustainable future. An IJCAI 2013 committee will select outstanding papers in this area to receive CCC travel awards provided by CCC to the authors of the papers (<http://www.cra.org/ccc/csus.php>).

JAIR Award Winning Paper Track

Authors of IJCAI 2013 award winning papers (best paper, best student paper, etc.) will be invited to submit extended versions of their papers to the Journal of Artificial Intelligence Research (JAIR) for expedited review and inclusion in the JAIR Award-Winning Paper Track (see <http://jair.org/awardedpapers.html>). Authors of such papers will be contacted directly by the IJCAI 2013 program chair about this opportunity.