

JELIA 2012 CALL FOR PAPERS

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12th European Conference on Logics in Artificial Intelligence - Toulouse, France, September 26-28, 2012

<http://www.irit.fr/jelia2012>

Logics provide a formal basis and key descriptive notation for the study and development of applications and systems in Artificial Intelligence (AI). With the depth and maturity of formalisms, methodologies, and systems today, such logics are increasingly important. The European Conference on Logics in Artificial Intelligence (or Journées Européennes sur la Logique en Intelligence Artificielle -- JELIA) began back in 1988, as a workshop, in response to the need for a European forum for the discussion of emerging work in this field. Since then, JELIA has been organized biennially, with English as the official language, and with proceedings published in Springer-Verlag's Lecture Notes in Artificial Intelligence series. In 2012 the conference is organized in Toulouse, France. The increasing interest in this forum, its international level with growing participation from researchers outside Europe, and the overall technical quality, has turned JELIA into a major forum for the discussion of logic-based approaches to AI.

Aims and Scope

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The aim of JELIA 2012 is to bring together active researchers interested in all aspects concerning the use of logics in Artificial Intelligence to discuss current research, results, problems, and applications of both theoretical and practical nature. JELIA strives to foster links and facilitate cross-fertilization of ideas among researchers from various disciplines, among researchers from academia and industry, and between theoreticians and practitioners.

Authors are invited to submit papers presenting original and unpublished research in all areas related to the use of logics in Artificial Intelligence including:

- Abductive and inductive reasoning
- Answer set programming
- Applications of logic-based AI systems
- Argumentation systems
- Automated reasoning including satisfiability checking and its extensions
- Computational complexity and expressiveness
- Deontic logic and normative systems
- Description logics and other logical approaches to semantic web and ontologies
- Knowledge representation, reasoning, and compilation
- Logic programming and constraint programming
- Logics for uncertain and probabilistic reasoning
- Logics in machine learning
- Logics in multi-agent systems, games, and social choice

- Non-classical logics, such as modal, temporal, epistemic, dynamic, spatial, paraconsistent, and hybrid logics
- Planning and diagnosis based on logic
- Preferences
- Reasoning about actions and causality
- Updates, belief revision and nonmonotonic reasoning

Paper Submission

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Proceedings will be published by Springer-Verlag in the Lecture Notes on Artificial Intelligence series. Papers should be written in English, and should be formatted according to the standard Springer LNCS style.

There will be two categories for submissions:

A. Regular papers

Submissions should not exceed 13 pages including figures, references, etc., and should contain original research, and sufficient detail to assess the merits and relevance of the contribution. Submissions must not have been previously published or be simultaneously submitted for publication elsewhere.

B. System descriptions

Submissions should not exceed 4 pages, and should describe an implemented system and its application area(s). A demonstration is expected to accompany a system presentation. Papers describing systems that have already been presented in JELIA before will be accepted only if significant and clear enhancements to the system are reported and implemented.

Important Dates

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May 18: Abstract submission
May 23: Paper submission
June 29: Notification of acceptance
July 15: Final version

Program committee

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Thomas Ågotnes
Natasha Alechina
José Júlio Alferes

Franz Baader
Philippe Balbiani
Peter Baumgartner
Salem Benferhat
Philippe Besnard
Richard Booth
Gerhard Brewka
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James Delgrande
Marc Denecker
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Andreas Herzig (chair)
Tomi Janhunen
Tommi Junttila
Jérôme Lang
Nicola Leone
Thomas Lukasiewicz
Carsten Lutz
Pierre Marquis
Jérôme Mengin (chair)
Luís Moniz Pereira
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David Pearce
Henri Prade
Jussi Rintanen
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Toby Walsh
Frank Wolter