

CALL FOR PAPERS

12th European Conference on LOGICS IN ARTIFICIAL INTELLIGENCE (JELIA 2010)

Aalto University and University of Helsinki, Helsinki, Finland, 13–15 September, 2010

[HTTP://JELIA2010.TKK.FI](http://JELIA2010.TKK.FI)

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Background: 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 organised biennially, with English as the official language, and with proceedings published in Springer-Verlag's Lecture Notes in Artificial Intelligence series. In 2010 the conference is organized for the first time in Scandinavia, following previous meetings mainly taking place in Central and Southern Europe (see the general website [HTTP://WWW.JELIA.EU/](http://www.JELIA.EU/) for details). 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 biennial forum for the discussion of logic-based approaches to AI.

Aims and Scope: The aim of JELIA 2010 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-fertilisation 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Authors are invited to submit papers presenting original and unpublished research in all areas related to the use of **logics in Artificial Intelligence** including: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 and foundations of logic-based AI systems
- Argumentation systems
- Automated reasoning including satisfiability checking and its extensions
- Computational complexity and expressiveness
- Description logics and other logical approaches to semantic web and ontologies
- Hybrid reasoning systems
- 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 such as modal, temporal, spatial, paraconsistent, and hybrid logics
- Nonmonotonic reasoning, belief revision, and updates
- Planning and diagnosis based on logic
- Preferences
- Reasoning about actions and causality

Paper Submission: 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. All submissions must be received by 23:59 GMT on May 3, 2010 (abstract) and May 7, 2010 (full paper), and should be electronically submitted via the link available at the JELIA 2010 web page. There are 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:

Deadline for abstract submission:

May 3, 2010

Deadline for paper submission:

May 7, 2010

Notification of acceptance:

June 11, 2010

Camera Ready Copy:

June 30, 2010

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