

# CALL FOR PAPERS

## 10th European Conference on LOGICS IN ARTIFICIAL INTELLIGENCE (JELIA-06)

University of Liverpool, United Kingdom, 13–15 September, 2006

[www.csc.liv.ac.uk/~jelia06](http://www.csc.liv.ac.uk/~jelia06)

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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 increasing 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 official language, and with proceedings published in Springer-Verlag's Lecture Notes in Artificial Intelligence. Previous meetings took place in Roscoff, FR (1988), Amsterdam, NL (1990), Berlin, DE (1992), York, UK (1994), Évora, PT (1996), Dagstuhl, DE (1998), Málaga, ES (2000), Cosenza, IT (2002), and Lisbon, PT (2004). 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.

**Aim and Scope:** The aim of JELIA'06 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 a 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 Authors are invited to submit papers presenting original and unpublished research in all areas related to the use of Logics in AI. A non-exhaustive list of topics of interest includes:

- Abductive and inductive reasoning
- Applications and foundations of logic-based AI systems
- Automated reasoning and theorem proving
- Computational complexity and expressiveness in AI
- Foundations of logic programming and knowledge-based — systems
- Hybrid reasoning systems
- Knowledge representation and reasoning
- Logic based applications to the Semantic Web
- Logic based planning and diagnosis
- Logic programming and nonmonotonic reasoning
- Logics and multi-agent systems
- Logics in machine learning
- Non-classical logics, including modal, temporal, spatial, hybrid and description logics
- Nonmonotonic reasoning, belief revision and updates
- Reasoning about actions, causal reasoning and causation
- Uncertain and probabilistic reasoning

**Paper Submission:** Proceedings will be published by Springer-Verlag in the Lecture Notes on Artificial Intelligence series. All submissions must be received (in PS or PDF only) by 1st May, 2006, and should be electronically submitted via the form available at the JELIA-06 web page. Papers should be written in English, and should be formatted according to the Springer LNCS style (with *standard* margins). There are two categories of submission:

**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. Simultaneous submission to other conferences with proceedings or submission of material that has already been published elsewhere is strictly forbidden.

**B.** Tool descriptions. Submissions should not exceed 4 pages, and should describe the implemented tool and its novel features. A demonstration is expected to accompany a tool presentation. Papers describing tools that have already been presented in this conference before will be accepted only if significant and clear enhancements to the tool are reported and implemented.

### Important Dates:

Deadline for submission:  
Notification of acceptance:  
Camera Ready Copy:

1st May, 2006  
8th June, 2006  
26th June, 2006

### General Chair:

Wiebe van der Hoek (Liverpool, UK)

### Programme Chair:

Michael Fisher (Liverpool, UK)

### Local Organisation Chair:

Alexei Lisitsa (Liverpool, UK)

### Tool Session Chair:

Boris Konev (Liverpool, UK)

### Programme Committee:

José Júlio Alferes (Lisbon, Portugal)  
Franz Baader (Dresden, Germany)  
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Clare Dixon (Liverpool, UK)  
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Enrico Franconi (Bozen-Bolzano, Italy)  
Ulrich Furbach (Koblenz-Landau, Germany)  
Sergio Greco (Calabria, Italy)  
Lluís Godo (CSIC, Spain)  
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Tomi Janhunnen (Helsinki, Finland)  
Peter Jonsson (Linköping, Sweden)  
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Charles Pecheur (Louvain, Belgium)  
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Henri Prade (IRIT, France)  
Henry Prakken (Utrecht, Netherlands)  
Francesca Rossi (Padova, Italy)  
Ken Satoh (NII, Japan)  
Renate Schmidt (Manchester, UK)  
Terry Swift (SUNY, Stony Brook, USA)  
Francesca Toni (London, UK)  
Paolo Torroni (Bologna, Italy)  
Mirek Truszczyński (Univ. Kentucky, USA)  
Toby Walsh (Univ. New South Wales, Australia)  
Mary-Anne Williams (Sydney, Australia)  
Michael Zakharyashev (London, UK)