



Call for Papers

KR 2008: Eleventh International Conference on Principles of Knowledge Representation and Reasoning

Sydney, Australia, September 16 - 19, 2008

Collocated with NMR-08, ICAPS-08, CP-08

The single registration fee includes attendance to most events for all conferences

<http://www.kr.org/KR2008/>

KR Workshops

KROW 2008: Knowledge Representation Ontology Workshop

<http://www.cse.unsw.edu.au/~kr2008/krow.html>

KRAMAS 2008: Workshop on Knowledge Representation for Agents and Multi-Agent Systems

<http://www.cs.uu.nl/events/kramas2008/kramas.html>

Doctoral Consortium

<http://www.cse.unsw.edu.au/~kr2008/doctoral.html>

Knowledge Representation and Reasoning (KR&R) is a vibrant and exciting field of human endeavour. KR&R techniques are key drivers of innovation in computer science, and they have led to significant advances in practical applications in a wide range of areas from Artificial Intelligence to Software Engineering. Explicit representations of knowledge manipulated by reasoning engines are an integral and crucial component of intelligent systems. Semantic Web technologies, the design of software agents and Bio-Informatics technologies, in particular, provide significant challenges for KR&R.

We intend KR2008 to be a forum for the exchange of new ideas, issues, and results among the community of researchers in the principles and practices of KR&R systems. We encourage papers presenting substantial new results in the principles of KR&R systems that clearly contribute to the formal foundations or show the applicability of the results to implemented or implementable systems. We also encourage “reports from the field” of building knowledge bases, applications, experiments, developments, and tests. Such papers should be explicitly identified as reports from the field by the authors, to ensure appropriate reviewing, and should include a section on evaluation.

Papers must be submitted in AAAI style (pdf files only). Paper length is 7 pages maximum including title, author information and references. Authors may add to the paper an optional, clearly marked Appendix containing technical material (such as proofs, evaluation results etc.) supporting claims made in the paper. The Appendix must not exceed 2 additional pages in AAAI style. The evaluation of the submission will be based on the quality of the paper. The optional Appendix will be used in case reviewers are in doubt about claimed results. Submission will be through the EasyChair conference management system. Conference proceedings will be published by AAAI Press. Final versions of papers will be considerably longer than the submissions: for each accepted paper 11 pages in AAAI style will be allocated in the proceedings.

Topics of interest include:

- Exception tolerant and inconsistency-tolerant reasoning, Paraconsistent logics
- Nonmonotonic logics, Default logics, Conditional logics, Argumentation
- Temporal and spatial reasoning
- Causal reasoning, Abduction, Model-based diagnosis
- Reasoning about action and change, Action languages, Situation calculus, Dynamic logic
- Reasoning, planning, or decision making under uncertainty
- Representations of vagueness, Many-valued and fuzzy logics
- Graphical representations for belief and preference
- Reasoning about belief and knowledge, Epistemic and doxastic logics, Multiagent logics of belief and knowledge
- Logic programming, Constraint logic programming, Answer set programming
- Computational aspects of KR
- Concept formation, Similarity-based reasoning
- Belief revision and update, Belief merging, Information fusion
- Description logics, Ontologies
- Qualitative reasoning, Reasoning about physical systems
- Decision theory, Preference modelling and representation, Reasoning about preference
- KR & Autonomous Agents: Intelligent Agents, Cognitive Robotics
- KR & Multiagent Systems: Negotiation, Group decision making, Cooperation, Interaction, KR & game theory
- Natural language processing, Summarization, Categorization
- KR and machine learning, Inductive logic programming, Knowledge discovery and acquisition
- WWW querying languages, Information retrieval & web mining, Website selection and configuration
- Philosophical foundations, psychological evidence

Conference Chairs:

General Chair: Patrick Doherty
PC Chairs: Gerhard Brewka, Jérôme Lang
Local Chair: Maurice Pagnucco
Local Organization: Abhaya Nayak
Doctoral Consortium Chair: Carsten Lutz
Publicity Chair: Thomas Meyer

Important Dates:

Submission of title and abstract: April 3, 2008
Paper submission deadline: April 7, 2008
Notification of acceptance: May 25, 2008
Camera-ready papers due: June 16, 2008
KR-2008 Conference: September, 16-19, 2008