

KI 2009

32nd Annual Conference on Artificial Intelligence
Paderborn, September 15–18, 2009



Bärbel Mertsching

About the Main Conference

This conference aims to gather researchers and developers from academic fields and industries worldwide to share their research results covering all aspects of artificial intelligence. It will be an international forum for discussions on recent progress in different fields of artificial intelligence including, but not limited to:

Agents, AI and engineering, Cognitive modeling, Cognitive systems, Constraint satisfaction, Deduction, Evolutionary computation, Games and interactive entertainment, Graphics and AI, History and philosophical foundations of AI, Human-machine-interaction, Knowledge acquisition, Knowledge representation and reasoning, Machine learning and data-mining, Model-based systems, Natural language processing, Neural networks, Ontologies, Planning and scheduling, Reasoning under uncertainty, Robotics, Search, Semantic web, Spatial and temporal reasoning, Vision and perception

Special area chairs representing the recent topics in AI will assure that each paper finds a competent reviewer and, when accepted, an adequate session.

Orthogonal to the scientific program of the conference three layers will be addressed:

- AI and Automation
- AI in the current clusters of excellence, collaborative research centers and graduate schools, and
- AI at the universities of applied sciences.

This year's major theme will be the impact of AI methods and theories on the engineering domain. Nowadays, AI can be found everywhere in this field, in the production process as well as in smart products, although very often the influence of AI research remains hidden. The special focus on AI and Automation will present state-of-the-art topics and will help to bridge the gap between academia and industrial applications.

Besides the main conference program, it is a good tradition of the KI conferences to have a wide range of

workshops and tutorials that allow practitioners in the field to exchange knowledge and ideas.

Last but not least, there will be ample opportunity to talk to colleagues and friends. Coffee breaks and an interesting social program will provide lots of opportunities for networking and will make the conference the community event.

The program committee cordially invites you to participate in the KI 2009 in one or more ways: if you want to present your work, join some of the workshops or attend the main conference, whatever your intentions might be you are welcome in Paderborn to the 32nd Annual Conference on Artificial Intelligence.

Submission Guidelines

Submitted papers, which have to be in English, must not exceed 15 pages in Springer LNCS style. Conference submission is electronic, in pdf format. The conference proceedings will be published in the Springer Lecture Notes in AI (LNAI) series. At least one author per accepted paper must register for the conference and present the contribution. Further details concerning paper submission are available at the conference web site (paper submission).

Important Dates for the Main Conference

Paper submission: Apr 09, 2009
Acceptance notification: Jun 12, 2009
Final version due: Jul 03, 2009
Technical program: Sep 16-18, 2009
The call for workshops appeared in KI 4/2008.

About the Tutorials

The tutorials will be held the day before the technical program starts. Tutorials will be free of charge for conference participants. We aim at a small number of high-quality tutorials suitable for a large percentage of conference participants, including graduate students as well as experienced researchers and practitioners.

Tutorials should give a comprehensive, in-depth perspective on innovative AI methods or technologies that have an obvious potential for research and/or application and are not covered by typical AI textbooks. We especially encourage tutorial proposals covering cognitive aspects of AI. Do not hesitate to contact the conference or tutorial chairs if you are in doubt about the suitability of a particular topic for the purpose. Both full-day (6 hours) and half-day (3 hours) tutorials are of interest.

KI-2009 tutorials will be held on September 15, 2009. They should preferably be given in English. Teaching material will be printed and distributed by the conference organization.

Proposal texts should be submitted by e-mail to the Tutorial Chair in plain text format. Annexes may be sent as .pdf, .ps, .ppt, or .doc format.

About AI at the Universities of Applied Sciences

Call for posters and industrial systems from AI groups at Universities of Applied Sciences and industrial partners

Based on this year's major topic AI and Automation one hot spot will be AI in cognitive systems for production machine applications, distributed embedded automation, quality inspection and vision, multisensory and information fusion, intelligent sensor/actuator based networks in plant environments and others.

Submission deadline: 01.06.2009

Main Organizers of KI 2009

Bärbel Mertsching (Univ. Paderborn)
Klaus-Dieter Althoff (Univ. Hildesheim)
Joachim Baumeister (Univ. Würzburg)
Marcus Hund (Univ. Paderborn)

General Chair and Contact

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