

## **KI 2015**

### **The 38th German Conference on Artificial Intelligence**

Dresden, September 21–25, 2015  
www.tu-dresden.de/inf/ki2015

#### **Main Conference**

KI 2015 is the 38th edition of the German Conference on Artificial Intelligence, which traditionally brings together academic and industrial researchers from all areas of AI, providing a premier forum for exchanging news and research results on theory and applications of intelligent system technology. The technical program of KI 2015 will comprise paper and poster presentations and a variety of workshops and tutorials. KI 2015 will be co-located with an international summer school organized by the International Center of Computational Logic. The conference invites original research papers from all areas of AI, its foundations, its algorithms, its history and its applications. KI 2015 also solicits technical communications and papers of senior researchers.

You are invited to submit original research and application papers on all aspects of AI research, including but not limited to the following:

- Agent-based and multi-agent systems
- AI applications and innovations
- Cognitive modeling
- Commonsense reasoning
- Computer vision
- Constraint satisfaction, search, and optimization
- Evolutionary computation
- Game playing and interactive entertainment
- Information retrieval, integration, and extraction
- Knowledge acquisition and ontologies
- Knowledge representation and reasoning
- Machine learning and data mining
- Multidisciplinary AI
- Natural language processing
- Planning and scheduling
- Robotics - Uncertainty in AI
- Web and information systems

We especially welcome application papers that provide novel insights on the interplay of AI and the real world, as well as papers that bring useful computational technologies from other areas of computer science into AI.

#### **Important Dates**

Paper submission: May 1  
Acceptance notification: June 22  
Final version due: July 3  
KI Workshops and Conference: September 21-25

#### **Workshops, Tutorials, Doctoral Consortium**

Together with the main conference, we plan to organize a small number of high-quality workshops. We especially encourage workshops organized by AI Special Interest Groups (GI-Fachgruppen), workshops that bring together researchers from different disciplines, and workshops that highlight emerging topics of AI research. The technical program of KI 2015 is also complemented by a doctoral consortium that invites participation by PhD students at any stage and from any subject area within AI.

For details on submitting workshop proposals and for applying to the doctoral consortium, please see the KI2015 web page.

#### **Submission**

We invite papers, which have to be in English and formatted according to the Springer LNCS style, in the following three categories

*Full technical papers* (12 pages max. excluding references) are expected to report on new research that makes a substantial technical contribution to the field. Additional details may be included in an appendix, which, however, will be read at the discretion of the PC.

*Technical communications* (6 pages max. excluding references) can report on research in progress, research already published elsewhere, or other issues of interest to the AI community. Examples of work suitable for technical communication submissions include: novel ideas whose scope is not large enough for a full paper: important implementation techniques; novel interesting benchmark problems; short experimental studies; interesting applications that are not yet completely solved or analyzed; position or challenge papers; etc. Technical communication submissions are especially invited for software demonstration or PhD work in progress.

*Senior track papers* (12 pages max. excluding references) should be written by a distinguished member of the AI community and cover a subject of general interest to the AI community. Examples of submissions eligible for this track include state-of-the-art reports about a subfield of AI, position pa-

pers on possible future developments in AI or its subfields, or papers on the interplay of AI research and society.

Submission will be through the EasyChair conference management system:

<http://www.easychair.org/conferences/?conf=ki2015>

All papers will be subject to blind peer review based on the standard criteria of relevance, significance of results, originality of ideas, soundness, and quality of the presentation. All accepted papers will be published in the main conference proceedings, and will be presented at the conference. At least one author of each accepted paper must register for the conference and present the contribution. The KI 2015 proceedings will be published by Springer as a volume of the LNAI (Lecture Notes in Artificial Intelligence) series.

### **Main Organizers**

#### *General Chair*

Steffen Hölldobler (TU Dresden)

#### *Program Chairs*

Markus Krötzsch (TU Dresden)

Sebastian Rudolph (TU Dresden)

#### *Workshop Chair*

Anni-Yasmin Turhan (TU Dresden)

#### *Doctoral Consortium Chair*

Rafael Peñaloza-Nyssen (TU Dresden)

#### *Sponsorship Chair*

Saartje Brockmans (Volz Innovation GmbH)

#### *Publicity Chair*

Simone Ponzetto (Uni Mannheim)

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