

Spatial Cognition 2008

Call for Papers, Schloss Reinach, Freiburg, Germany
September 15-19, 2008



Christian Freksa, Stefan Wöfl

Spatial Cognition is concerned with the acquisition, organization, utilization, and revision of knowledge about spatial environments, be it real or abstract, human or machine. Spatial Cognition comprises research in very different scientific fields concerned with cognitive agents in spatial environments, such as robotics, artificial intelligence, architecture, geography, linguistics, cognitive science, and philosophy. The aim of this research is to help agents to solve spatial tasks and to improve their spatial skills. Research issues in the field range from the investigation of human spatial cognition to mobile robot navigation, including aspects such as wayfinding, spatial planning, spatial learning, representations of space, map comprehension, and communication of spatial information.

Conference Topics

Relevant conference topics include, but are not limited to:

- Natural language and space
- Conceptualizations of space
- Representations of spatial knowledge and spatial ontologies
- Spatial and spatio-temporal reasoning
- Cognitive processing of spatial information and spatial attention
- Spatial learning and spatial skills
- Human wayfinding, route directions, and spatial behavior
- Diagrammatic reasoning and maps
- Human-machine interaction in spatial environments
- Spatial assistance systems
- Geographic information systems
- Robot navigation and exploration
- Evaluation and benchmarking of spatial theories and systems

Organization

Spatial Cognition 2008 continues a series of international and interdisciplinary conferences on spatial cogni-

tion, with proceedings published in the Springer LNAI series. Spatial Cognition 2008 is organized by the Transregional Collaborative Research Center *SFB/TR 8 Spatial Cognition* in cooperation with the *Spatial Intelligence and Learning Center (SILC)*.

Program chairs

Christian Freksa,
University of Bremen
Nora S. Newcombe,
Temple University, USA
Peter Gärdenfors,
Lund University, Sweden

Local organization

Stefan Wöfl, University of Freiburg

Workshops

Kenny Coventry,
Northumbria University, UK
Jan M. Wiener,
Collège de France, France

Tutorials

Thomas F. Shipley,
Temple University, USA

Poster session

Christoph Hölscher,
University of Freiburg

Doctoral colloquium

Marco Ragni, University of Freiburg
Sven Bertel, University of Bremen

Paper Submissions

Authors are invited to submit a full paper by the indicated deadline. Papers must be written in English and describe original and unpublished work in at least one of the fields related to the conference topics. The target length of paper contributions is 15-17 pages (including abstract, figures, and references) in the Springer LNCS format. Authors are also invited to submit new research results or descriptions of technical systems to

be presented during the poster session. We strongly encourage contributions from interdisciplinary and international collaborations.

Tutorials, Workshops, and Doctoral Colloquium

Tutorials at Spatial Cognition 2008, given by experts in the field, will present in-depth courses or surveys on interdisciplinary topics pertaining to spatial cognition. Spatial Cognition 2008 will also host a number of workshops, thus providing a platform for open discussions on new emerging topics in the field. The program will be completed by the doctoral colloquium, giving doctoral students the opportunity to present their work and receive feedback from the Spatial Cognition community.

Dates and Deadlines

| | |
|--------------------------|---------------------|
| Workshop proposals: | Feb 15, 2008 |
| Tutorial proposals: | Feb 15, 2008 |
| Full paper submission: | Mar 21, 2008 |
| Notification of authors: | May 16, 2008 |
| Final papers: | Jun 6, 2008 |
| Poster submission: | Jun 20, 2008 |
| Technical program: | Sep 16-18, 2008 |
| Tutorials: | Sep 15, 2008 |
| Workshops: | Sep 15 and 19, 2008 |
| Doctoral Colloquium: | Sep 19, 2008 |

Contact

Dr. Stefan Wöfl
SFB/TR 8 Spatial Cognition
Institut für Informatik
Albert-Ludwigs-Universität Freiburg
D-79110 Freiburg
woelfl@informatik.uni-freiburg.de

conference.spatial-cognition.de