

The Thirteenth International Conference on Spatial Information Theory (COSIT 2017)

L'Aquila, Italy, September 4-8 2017

University of L'Aquila, Aula Magna, Viale Nizza 14

Established in 1993, COSIT is a biennial international conference series concerned with theoretical aspects of space and spatial information. COSIT was started to establish a counterpoint to several concurrent applied GIS conferences at which reports on applications and development in GIS technology were made but often without a contribution to scientific theory and literature. The focus at COSIT from the beginning has been on theories of space and time relevant to the establishment and the advancement of (geo) spatial information science.

TOPICS

- Activity-based models of spatial knowledge
- Cartography and geographic visualization
- Cognitive structure of spatial knowledge
- Cognitive aspects of geographic information
- Cooperative work with spatial information
- Events and processes in geographic space and time
- Human sensors in space and time
- Incomplete or imprecise spatial knowledge
- Knowledge representation for space and time
- Languages of spatial relations
- Naive geography/behavioral geography
- Navigation and wayfinding, including robot navigation
- Ontology of space and time
- Presentation and communication of spatial information
- Qualitative and commonsense spatial representation
- Quality issues in geographic information
- Semantics of geographic information
- Social and cultural organization of space
- Spatial and temporal language
- Spatial aspects of social networks
- Spatial data integration/interoperability
- Spatial decision-support
- Structure of geographic information
- Theory and practice of spatial and temporal reasoning
- Time in geographic information
- User-interface design/spatialization of interfaces
- Virtual spaces
- Volunteered geographic information

ABOUT THE CONFERENCE

COSIT is structured in three main parts:

The first day (September 4) will host satellite workshops and tutorials focused either on specialized topics or on emergent research fields;

The main conference is designed as a three-day event (September 5-7) and offers two distinct submission streams: full papers and posters. Each conference day starts with a keynote speech held by the following invited speakers:

- **Dr. Sang Ah Lee** (*Center for Mind/Brain Sciences, University of Trento*), title of talk: A Boundary-based View of Spatial Cognition
- **Dr. Stefano Borgo** (*Laboratory for Applied Ontology, ISTC CNR Trento*), title of talk: Cognitive Robotics
- **Prof. Bin Jiang**, (*Division of GIScience, University of Gävle*), title of talk: Why Topology Matters in Spatial Analysis and Cognition?

A Doctoral Colloquium will be held on the last day (September 8), which provides a forum where PhD students can present their relevant research to international and interdisciplinary researchers and fellow students to gain important feedback.

ORGANIZATION

General Chairs

Eliseo Clementini
University of L'Aquila

Maureen Donnelly
Suny Buffalo

Program Chairs

May Yuan
UT Dallas

Christian Kray

University of Münster

Satellite Event Chairs

Paolo Fogliaroni
TU Wien

Andrea Ballatore
Birkbeck, University of London



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Università degli studi dell'Aquila



Dipartimento di Ingegneria Industriale e dell'Informazione e di Economia



International Federation for Information Processing



AICA

Associazione Italiana per l'informatica ed il Calcolo Automatico