

## **COSIT Programme (as of August 9, 2013)**

### **Monday September 2, 2013**

9:00 – 17:30

**Workshops** (see link Workshops) and **Tutorials** (see link Tutorials)

Coffee breaks at 11:00 and 15:30

Lunch break 13:00-14:00

**19:00 Reception**

### **Tuesday September 3, 2013**

**8:45am Conference Opening**

**9:00am Keynote:** Jens Riegelsberger

Chair: Thora Tenbrink

10:00-10:20 Coffee break

**10:20 Spatial change 1 (Chair: John Stell)**

1. Toru Ishikawa. Spatial Primitives from a Cognitive Perspective: Sensitivity to Changes in Various Geometric Properties
2. Christian Kray, Holger Fritze, Thore Fechner, Angela Schwering, Rui Li and Vanessa Joy Anacta. Transitional Spaces: Between Indoor and Outdoor Spaces
3. Claudio Campelo and Brandon Bennett. Representing and Reasoning about Changing Spatial Extensions of Geographic Features

11:35-12:00 Coffee break

**12:00 Spatial change 2 (Chair: Matt Duckham)**

4. Mohamed Bishr and Werner Kuhn. Trust and Reputation Models for Quality Assessment of Human Sensor Observations
5. Michael Worboys. Using maptrees to characterize topological change

12:50-14:15 Lunch & Steering Committee meeting

**14:15 Wayfinding & assistance 1 (Chair: Sabine Timpf)**

1. Cui Jian and Hui Shi. Resolving Conceptual Mode Confusion with Qualitative Spatial Knowledge in Human-Robot Interaction
2. Matthias Kerzel and Christopher Habel. Event Recognition During the Exploration of Line-Based Graphics in Virtual Haptic Environments

3. Paul Weiser and Andrew U. Frank. Cognitive Transactions - A Communication Model

15:30-16:00 Coffee break

**16:00 Wayfinding & assistance 2 (Chair: Andrew Frank)**

4. Makoto Takemiya and Toru Ishikawa. Strategy-Based Dynamic Real-Time Route Prediction
5. David Jonietz and Sabine Timpf. An Affordance-based Simulation Framework for Assessing Spatial Suitability
6. Vivien Mast and Diedrich Wolter. A Probabilistic Framework for Object Descriptions in Indoor Route Instructions

17:15-17:25 Short break

17:25 Brief oral poster presentations

**18:00 Poster session with buffett**

**Wednesday September 4, 2013**

**9:00am Keynote:** Karen Emmorey

Chair: Brandon Bennett

10:00-10:20 Coffee break

**10:20 Representing spatial data (Chair: Mike Worboys)**

1. Johannes Trame, Carsten Keßler and Werner Kuhn. Linked Data and Time – Modeling Researcher Life Lines by Events
2. Anastasia Petrenko, Scott Bell, Kevin Stanley, Winchel Qian, Anton Sizo and Dylan Knowles. Human Spatial Behavior, Sensor Informatics, and Disaggregate Data
3. Alexis Comber, Chris Brunsdon, See Linda, Steffen Fritz and Ian McCallum. Comparing expert and non-expert conceptualisations of the land: an analysis of crowdsourced land cover data

11:35-12:00 Coffee break

**12:00 Handling language data (Chair: Dan Montello)**

1. Curdin Derungs, Flurina Wartmann, Ross S. Purves and David M. Mark. The Meanings of the Generic Parts of Toponyms: Use and Limitations of Gazetteers in Studies of Landscape Terms
2. Kristin Stock, Robert Pasley, Zoe Gardner, Paul Brindley, Jeremy Morley and Claudia Cialone. Creating a corpus of geospatial natural language

**13:15-18:00 Excursion**

**19:00 Conference Dinner**

**Thursday September 5, 2013**

**9:00am Keynote:** Trevor Bailey  
Chair: Antony Galton

10:00-10:20 Coffee break

**10:20 Spatial language & computation 1 (Chair: Stephan Winter)**

1. Maria Vasardani, Sabine Timpf, Stephan Winter and Martin Tomko. From Descriptions to Depictions: A Conceptual Framework
2. Clare Davies. Reading Geography Between the Lines: Extracting Local Place Knowledge from Text
3. Lamia Belouaer, David Brosset and Christophe Claramunt. Modeling Spatial Knowledge from Verbal Descriptions

11:35-12:00 Coffee break

**12:00 Spatial language & computation 2 (Chair: Stephen Hirtle)**

4. Katrin Johannsen, Agnes Swadzba, Leon Ziegler, Sven Wachsmuth and Jan P. De Ruiter. A Computational Model for Reference Object Selection in Spatial Relations
5. Alexander Klippel, Jan Oliver Wallgrün, Jinlong Yang, Jennifer S. Mason, Eun-Kyeong Kim and David M. Mark. Fundamental Cognitive Concepts of Space and Time: Using Cross-Linguistic, Crowdsourced Data to Cognitively Calibrate Modes of Overlap

12:50-14:15 Lunch

**14:15 Spatial ontology (Chair: Kristin Stock)**

1. Torsten Hahmann and Boyan Brodaric. Kinds of Full Physical Containment
2. Brandon Bennett, Vinay Chaudhri and Nikhil Dinesh. A Vocabulary of Topological and Containment Relations for a Practical Biological Ontology
3. Yingjie Hu, Krzysztof Janowicz, David Carral, Simon Scheider, Werner Kuhn, Gary Berg-Cross, Pascal Hitzler and Mike Dean. A Geo-Ontology Design Pattern for Semantic Trajectories

15:30-16:00 Coffee break

**16:00 Spatial reasoning and representation 1 (Chair: Tony Cohn)**

1. Stefano Borgo. RCC and the Theory of Simple Regions in R2
2. Heshan Du, Natasha Alechina, Kristin Stock and Michael Jackson. The logic of NEAR and FAR

16:50-17:00 Short break

**17:00 Spatial reasoning and representation 1 (Chair: Stefano Borgo)**

3. Joshua A. Lewis, Matthew P. Dube and Max Egenhofer. The Topology of Spatial Scenes
4. Frank Dylla, Till Mossakowski, Thomas Schneider and Diedrich Wolter. Algebraic Properties of Qualitative Spatio-Temporal Calculi

**Awards**

**19:00 Club Spatial**

**Friday September 6, 2013**

**9:00am - 4:00pm Doctoral Colloquium**

Coffee breaks to be determined

Lunch break 12:00-13:00

**Conference close**