

Third Call for Papers (Extended Deadline)

ET4S 2013 – 1st International Workshop on Eye Tracking for Spatial Research



September 2, 2013 in Scarborough, United Kingdom

in conjunction with the Conference on Spatial Information Theory 2013 (COSIT)

<http://www.spatial eyetracking.org/>

et4s@spatiale yetracking.org

Eye tracking has become a popular method for investigating research questions related to spatial information theory. This includes studies on how people interact with geographic information systems and studies on how space is perceived in decision situations. Knowledge of how people perceive spatial information can help us, for instance, designing better maps and other spatial representations or deciding on the optimal placement of signage in indoor and outdoor environments. Recent technological developments in the area of mobile eye trackers have opened up new perspectives for their use in spatial research by allowing for studies outside the research lab, adding the user's position as another aspect of the data.

Independent of this, the human computer interaction (HCI) community has been using eye trackers as input devices for building interactive systems that react to the user's gaze. These gaze-aware assistance technologies are likely to change the way we will access and interact with geographic information in the future, especially as augmented reality glasses with integrated eye trackers will reach the mass market in the forthcoming years.

This workshop aims to bring together researchers from different areas with a common interest in using eye tracking for research questions related to spatial information. It should stimulate the exchange of ideas between the different areas, laying out a road map for using eye tracking for spatial research.

Topics of interest include, but are not limited to

- Evaluation of Cartographic and other Spatial Visualizations with Eye Tracking
- Eye Tracking as a Tool for Spatial Cognition Research
- Eye Tracking in Traffic Research, Car Navigation, and Public Transport
- Gaze-Aware Mobile Assistance
- Gaze-Based Activity Recognition while Interacting with Geospatial Information
- Gaze-Based Interaction with visuo-spatial representations and Maps
- Spatio-Temporal Analysis and Visualization of Eye Tracking Data

- Usability Analysis of GIS with Eye Tracking
- Visual Perception and Exploration of (Indoor and Outdoor) Space
- Wayfinding Studies and Eye Tracking

Submission Guidelines

Prospective authors should submit short papers between 4-6 pages in length. Papers may describe preliminary results or work in progress, and can be position statements or vision papers. Manuscripts will be reviewed by two members of the program committee. Papers may be accepted for oral or for poster presentation.

All accepted papers will be included in the proceedings distributed at the workshop (USB memory stick). We are exploring the potential for a special issue in a journal (e.g., in “Spatial Cognition and Computation”), for which there would be an open call and separate review process. Accepted authors to the workshop will be encouraged to submit extended versions of their work to this special issue.

Submissions should be prepared according to the Springer LNCS guidelines (PDF) and submitted through Easychair: <https://www.easychair.org/conferences/?conf=et4s2013>

Important Dates (Deadline Extended)

May 6, 2013 April 29, 2013	Short paper submission
May 27, 2013	Notification of acceptance
July 20, 2013	Camera-ready due
September 2, 2013	Workshop

Program Committee

Andreas Bulling, Max Planck Institute for Informatics

Arzu Cöltekin, University of Zurich

Andrew Duchowski, Clemson University

Sara Fabrikant, University of Zurich

Muki Haklay, University College London

Christoph Hölscher, ETH Zurich

Antonio Krüger, DFKI Saarbrücken

Thérèse Steenberghen, K.U. Leuven

Invited Speaker

Dr. Benjamin Tatler, School of Psychology, The University of Dundee

Organizers

Peter Kiefer, ETH Zürich

Ioannis Giannopoulos, ETH Zürich

Martin Raubal, ETH Zürich

Mary Hegarty, University of California, Santa Barbara

Sponsor of ET4S 2013



Contact

Peter Kiefer, Institute of Cartography and Geoinformation, ETH Zürich

et4s@spatialetracking.org