

First Call for Papers

ET4S 2014 – 2nd International Workshop on Eye Tracking for Spatial Research



September 23, 2014 in Vienna, Austria

in conjunction with the Eighth International Conference on Geographic Information Science
(GIScience 2014)

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

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Eye tracking has become a popular method for investigating research questions related to geographic information science. 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, to design better maps and other spatial representations or to decide 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.

After the successful 1st International Workshop on Eye Tracking for Spatial Research (ET4S) at COSIT'13 we aim to bring together researchers from different areas who have a common interest in using eye tracking for research questions related to spatial information. The workshop 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

- Visual Perception and Exploration of (Indoor and Outdoor) Space
- Eye Tracking as a Tool for Spatial Cognition Research
- Wayfinding Studies and Eye Tracking
- Gaze-Based Interaction with visuo-spatial representations and Maps
- Spatio-Temporal Analysis and Visualization of Eye Tracking Data
- Eye Tracking in Traffic Research, Car Navigation, and Public Transport
- Gaze-Aware Mobile Assistance

- Usability Analysis of GIS with Eye Tracking
- Evaluation of Cartographic and other Spatial Visualizations with Eye Tracking

Submission Guidelines

Prospective authors should submit work in progress, position papers or vision statements with a maximum of 4 pages length. Manuscripts will be reviewed by at least two members of the program committee.

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. Templates and submission website to be found at <http://spatialeyetracking.org/>

Important Dates

May 2, 2014	Paper submission
June 6, 2014	Notification of acceptance
July 10, 2014	Camera-ready due
September 23, 2014	Workshop

Program Committee

Gennady Andrienko, Fraunhofer Institute

Arzu Cöltekin, University of Zurich

Florian Daiber, German Research Center for Artificial Intelligence (DFKI)

Clare Davies, University of Winchester

Andrew T. Duchowski, Clemson University

Sara Fabrikant, University of Zurich

Mary Hegarty, University of California, Santa Barbara

Christoph Hölscher, ETH Zurich

Christian Kray, Münster University

Johannes Schöning, Hasselt University

Artemis Skarlatidou, University College London

Jan M. Wiener, Bournemouth University

Invited Speaker

Andrew T. Duchowski, Clemson University

Organizers

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