

## Preface

This document contains the proceedings of the 2nd International Workshop on Eye Tracking for Spatial Research (ET4S 2014), held on September 23, 2014 in Vienna, Austria, in conjunction with the Eighth International Conference on Geographic Information Science (GIScience).

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.

The ET4S 2014 workshop featured a keynote talk, 14 short paper presentations, a discussion session, and a hands-on event with mobile eye tracking. We would like to thank all authors for contributing their work, the members of our program committee for their time, and our keynote speaker — Andrew T. Duchowski (School of Computing, Clemson University). We are also grateful for the support of our sponsor Ergoneers (<http://www.ergoneers.com/en/>). Finally, we would like to acknowledge the GIScience organizers' help in organizing the workshop.

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