Eye tracking has become a popular method for investigating research questions related to geographic space. This includes studies on how people interact with geographic information systems, studies on how space is perceived in decision situations, and using gaze as an input modality for spatial human-computer interaction. The ETRA track on Eye Tracking for Spatial Research (ET4S) aims to bring together researchers from different areas who have a common interest in using eye tracking for research questions related to spatial information and spatial decision making.

After three successful ET4S workshops in 2013, 2014 and 2018, the 4th edition of ET4S will be organized as a conference track at ETRA 2019, the ACM Symposium on Eye Tracking Research & Applications.

Topics of interest include, but are not limited to:

- Gaze-Based Interaction with Maps and other Spatial Visualizations
- Evaluation of Cartographic and other Spatial Visualizations with Eye Tracking
- Gaze-Aware Mobile Assistance and Location-Based Services
- Navigation Studies, Wayfinding, and Eye Tracking
- Visual Perception and Exploration of (Indoor and Outdoor) Space
- Landscape Perception
- Gaze During Spatial and Spatio-Temporal Decision Making
- Eye Tracking as a Tool for Spatial Cognition Research
- Spatio-Temporal Analysis and Visualization of Eye Tracking Data
- Eye Tracking in Traffic Research, Car Navigation, Public Transport, and Aviation
Changes to previous ET4S events

Different to previous years, ET4S is **NOT organized as a workshop**, but as a track at the [ACM Symposium on Eye Tracking Research & Applications](https://www.acm.org). This implies the following changes:

- We call for both, **long and short papers**.
- The contribution must be equivalent to that of the according submission category at ETRA.
- Accepted papers are considered regular ETRA publications and will be part of the ETRA proceedings (ACM digital library). A footnote on the first page will indicate that your paper was part of ET4S.
- The submission process follows that of ETRA, but with a **separate program committee**.
- At least one author of each accepted ET4S paper must register for the ETRA conference. Participants will be free to change between ET4S and other ETRA tracks.

Submission guidelines

Please follow the ETRA submission guidelines for categories **long paper or short paper**:

[http://etra.acm.org/2019/authors.html](http://etra.acm.org/2019/authors.html)

During the submission process through [EasyChair](https://www.easychair.org), please indicate that your submission should be submitted to ET4S.

Important dates (same as for ETRA)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>December 14, 2018</td>
<td>Paper abstracts due</td>
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<tr>
<td>December 19, 2018</td>
<td>Long &amp; short papers due</td>
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<td>January 23, 2019</td>
<td>Feedback: Reviews to authors</td>
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<td>January 28, 2019</td>
<td>Rebuttals and revised papers due</td>
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<td>February 18, 2019</td>
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<td>March 22, 2019</td>
<td>Camera-ready papers due</td>
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<tr>
<td>June 25-28, 2019</td>
<td>ETRA conference with ET4S track. The scheduling of the track will depend on the number of accepted ET4S papers.</td>
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ET4S program committee


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