



# Eye Tracking Research & Applications Symposium

March 28<sup>th</sup> – 30<sup>th</sup>, 2012  
Fess Parker's DoubleTree Resort  
Santa Barbara, CA  
<http://www.etra2012.org>

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## Call For Papers

The Seventh ACM Symposium on Eye Tracking Research & Applications (ETRA 2012) will be held in Santa Barbara, California on March 28th-30th, 2012. The ETRA conference series focuses on all aspects of eye movement research and applications across a wide range of disciplines. The symposium presents research that advances the state-of-the-art in these areas, leading to new capabilities in gaze tracking systems, gaze aware applications, gaze based interaction, eye movement data analysis, etc. For ETRA 2012, we invite papers in all areas of eye tracking research and applications.

### ETRA 2012 Theme: Mobile Eye Tracking

Mobile devices are becoming more powerful every day. Embedding eye tracking and gaze-based applications in mobile devices raises new challenges and opportunities to many aspects of eye tracking research. ETRA 2012 invites papers tackling the challenges, or exploring new research opportunities of mobile eye tracking.

#### General areas of interest

##### *Eye Tracking Technology*

Advances in eye tracking hardware, software and algorithms such as: 2D and 3D eye tracking systems, calibration, low cost eye tracking, natural light eye tracking, predictive models, etc.

##### *Eye Tracking Data Analysis*

Methods, procedures and analysis tools for processing raw gaze data as well as fixations and gaze patterns. Example topics are: scan path analysis, fixation detection algorithms, and visualization techniques of gaze data.

##### *Visual Attention and Eye Movement Control*

Applied and experimental studies investigating visual attention and eye movements to gain insight in eye movement control, cognition and attention, or for design evaluation of visual stimuli. Examples are: usability and web studies using eye tracking, and eye movement behavior in everyday activities such as driving and reading.

##### *Eye Tracking Applications*

Eye tracking as a human-computer input method, either as a replacement to traditional input methods or as a complement. Examples are: assistive technologies, gaze enhanced interaction and interfaces, multimodal interaction, gaze in augmented and mixed reality systems, and gaze-contingent displays.

### Submissions

Authors are invited to submit original work in the formats of Full paper (8 pages) and Short paper (4 pages). The papers will undergo a rigorous review process assessing the originality and quality of the work as well as the relevance for eye tracking research and applications. Papers presented at ETRA 2012 will be available in the ACM digital library. Submission formats and instructions are available at the conference web site.

### Conference Venue

ETRA 2012 will be held at the gorgeous Doubletree Resort in Santa Barbara, California, a 24-acre, mission-style resort hotel facing the Pacific Ocean, located on one of Southern California's most beautiful coastlines.

### Sponsorship

ETRA 2012 is co-sponsored by the ACM Special Interest Group in Computer-Human Interaction (SIGCHI), and the ACM Special Interest Group on Computer Graphics and Interactive Techniques (SIGGRAPH).

### Important Dates

Oct. 07<sup>th</sup>, 2011 Full Paper abstracts submission due  
Oct. 14<sup>th</sup>, 2011 Full Papers submission due  
Nov. 21<sup>st</sup>, 2011 Full Papers acceptance notification  
Dec. 07<sup>th</sup>, 2011 Short Papers submission due  
Jan. 16<sup>th</sup>, 2012 Short Papers acceptance notification  
Jan. 23<sup>rd</sup>, 2012 Camera ready papers due

#### Conference Co-Chairs

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