



# 1<sup>st</sup> International Workshop on Eye-Tracking in Aviation



17<sup>th</sup> March, 2020 in Toulouse, France

<http://etavi.isae.fr>

## Call for Papers

The aviation domain can benefit from the growth and maturation of eye-tracking technology to improve training programs, on-board and on-ground human-computer interaction, and flight data analysis. The 1st International Workshop on Eye-Tracking in Aviation (ETAVI) aims to bring together researchers, practitioners and industrial players who have common interests in applying eye-tracking research in the aviation domain including but not limited to the cockpit and air traffic control/management.

**Topics of interest** include, but are not limited to:

- Eye-Tracking for training:
  - Tools for improving monitoring skills
  - Tools for instructors/educators
  - Standardized eye movement patterns
- Eye-Tracking for interaction:
  - Gaze as an input modality in the cockpit and for traffic control
  - Gaze monitoring for adaptive interfaces
  - Gaze-based interaction to support existing interactions
  - Gaze-based interactions to introduce novel interactions
- Eye-Tracking for analysis:
  - Eye movements in cockpit and air traffic control operations
  - Evaluation and improvement of interfaces
  - Expertise estimation and flight performance analysis
  - Tools for comparison of pilots' and controllers' scanpaths
  - Analyzing big eye-tracking data from training sessions
  - Cognitive pilots/controllers models based on gaze behavior
- Eye-Tracking challenges and extensions:
  - On-board gaze recording challenges
  - Extending physiological recordings with EEG, ECG, EDA, fNIRS
  - Augmented/virtual/mixed reality in simulation or training
  - Ethical aspect

Authors are invited to submit work in progress, preliminary results, or position papers between 4-6 pages in length. Manuscripts will be reviewed by the program committee. Papers may be accepted for oral or for poster presentation. Online proceedings will be published as open access through the *ETH Zurich Research Collection* under a Creative Commons license. Each paper will be assigned a DOI. More submission guidelines will be available at <http://etavi.isae.fr>

### **Important dates**

- ~~September 9, 2019~~ **September 30, 2019**                      abstracts due
- ~~September 30, 2019~~ **October 14, 2019**                      papers due
- November 11, 2019                      reviews to authors
- November 18, 2019                      rebuttals + revised paper
- December 2, 2019                      notification of results
- December 9, 2019                      camera-ready papers due
- March 17, 2020                      ETAVI workshop

### **Organizing Committee**

- Vsevolod Peysakhovich, ISAE-SUPAERO
- David Rudi, ETH Zurich
- Mickael Causse, ISAE-SUPAERO
- Peter Kiefer, ETH Zurich
- Frédéric Dehais, ISAE-SUPAERO
- Martin Raubal, ETH Zurich

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