



**INTERNATIONAL**

## INVITED SESSION SUMMARY

### Title of Session:

# The 9th Special Session on Eye Movement Data Processing and Analysis

### Name, Title and Affiliation of Chair:

- Prof. Katarzyna Harezlak, Silesian University of Technology, Poland (**chair**)
- Prof. Pawel Kasproski, Silesian University of Technology, Poland
- Prof. Jacek Matulewski, Nicolaus Copernicus University, Poland

### Details of Session (including aim and scope):

#### ***Aim***

The series of EMDPA sessions aim to summarize the current state of the art in the eye movement data analysis and enable prospective researchers to present their new ideas concerning the eye movement analyses. We welcome you to join our session and submit the paper. The conference proceedings will be published in Elsevier's Procedia Computer Science open access journal, available in ScienceDirect, and submitted to be indexed/abstracted in CPCi (ISI conferences and part of Web of Science), Engineering Index, and Scopus.

#### ***Scope***

The scope of the workshop includes but is not limited to:

- Collecting eye movement data
- Accuracy and precision of data
- Calibration of eye movement data signal
- Events detection (fixations and saccades)
- Gaze-based user interfaces
- Eye movement modelling
- Data mining of eye movement signal
- Eye movement based identification
- Improving man machine interactions for people with disabilities
- Eye movement applications in testing interface usability
- Eye movement in security systems

- Eye movement in solving problems
- Usage of eye movement signal in cognitive processes
- Methods improving quality of eye movement signal
- Recognition of people's intentions basing on their eye movement
- Miscellaneous eye tracking applications

**Main Contributing Researchers / Research Centres (tentative, if known at this stage):**

We expect contributors from different institutions, the session will be advertised in many places. Contributors from the other EMDPA session represented inter alia: Johannes Gutenberg-Universität Mainz, University of Duisburg-Essen, University of Potsdam, Saarland University, Silesian University of Technology, Lomonosov Moscow State University, Plekhanov Russian University of Economics, and HES-SO University of Applied Science Western Switzerland  
**We expect similarly diverse contributors in 2025.**

**Website URL of Call for Papers (if any):**

<https://www.emdpa.org> (please link to this page on sessions' list!)

**Email & Contact Details:**

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