



INVITED SESSION SUMMARY

Title of Session:

The 8th Special Session on Eye Movement Data Processing and Analysis

Name, Title and Affiliation of Chair:

- Prof. Pawel Kasproski, Silesian Univesity of Technology, Poland (**chair**)
- Prof. Katarzyna Harezlak, Silesian Univesity 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 last EMDPA session in 2023 represented: Johannes Gutenberg-Universitat 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 2024.

Website URL of Call for Papers (if any):

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

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