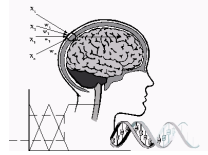




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

Combined session of Eye Movement Data Processing and Analysis (EMDPA) and Communication by Gaze Interaction (COGAIN)

Name, Title and Affiliation of Chair:

Pawel Kasprowski, Associate Professor, Silesian University of Technology, Poland (chair)
Katarzyna Harezlak, Associate Professor, Silesian University of Technology, Poland (co-chair)
Minoru Nakayama, Professor, Meiji University, Japan (co-chair)
Augusto Esteves, Associate Professor in CSE, University of Lisbon, Portugal (co-chair)
Jacek Matulewski, Associate Professor, Nicolaus Copernicus University, Poland (co-chair)

Details of Session (including aim and scope):

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. The COGAIN Association focuses on all aspects of gaze interaction related to eye-controlled assistive technology. The scope of the combined session 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):

Silesian University of Technology, Meiji University, University of Lisbon, Nicolaus Copernicus University and several others

Website URL of Call for Papers (if any):

<http://www.emdpa.org>

Email & Contact Details:

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