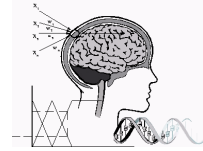




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

Eye Movement Data Processing and Analysis (EMDPA)

Name, Title and Affiliation of Chair:

Pawel Kasprowski, Silesian University of Technology, Poland (chair)
Katarzyna Harezlak, Silesian University of Technology, Poland (co-chair)
Michael Burch, Eindhoven University of Technology, Netherlands (co-chair)

Details of Session (including aim and scope):

With increasing access to cheap and easy to use eye trackers there are more and more eye tracking data to store, process and analyse. There are also new emerging applications for eye tracking studied. As a result new methods and intelligent systems regarding eye movement data processing have to be developed.

The aim of the series of EMDPA sessions is to summarize the current state of the art in the eye movement data analysis and enable prospective researchers to present their new ideas concerning this subject. There were already three sessions organized during KES conferences (see www.emdpa.pl for details).

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 visualization
- Usage of eye movement signal in cognitive processes
- Methods improving quality of eye movement signal

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

Pawel Kasprowski, Silesian University of Technology, Poland
Katarzyna Harezlak, Silesian University of Technology, Poland
Michael Burch, Eindhoven University of Technology, Netherlands

Website URL of Call for Papers (if any):

www.emdpa.pl

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