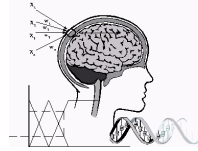




# International

*Innovation in Knowledge Based and Intelligent  
Engineering Systems*



## INVITED SESSION SUMMARY

**Title of Session:**

The 6th Special Session on Eye Movement Data Processing and Analysis (EMDPA)

**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)  
Jacek Matulewski, Associate Professor, Nicolaus Copernicus University, Poland (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 five sessions organized during KES conferences (see [www.emdpa.pl](http://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):****Website URL of Call for Papers (if any):**

[www.emdpa.pl](http://www.emdpa.pl)

**Email & Contact Details:**

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