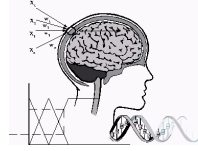




# International

*Innovation in Knowledge Based and Intelligent  
Engineering Systems*



## INVITED SESSION SUMMARY

**Title of Session:**

Neuroscience techniques and quantitative methods in supporting decision making

**Name, Title and Affiliation of Chair:**

Prof. Kesra Nermend, University of Szczecin, Poland

**Co-chairs:**

Prof. Waldemar Tarczyński, University of Szczecin, Poland

Prof. Małgorzata Łatuszyńska, University of Szczecin, Poland

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

The session will create the platform for discussion on modern solutions in the field of:

- tools and methods of supporting decision making and
- techniques of data acquisition for decision making purposes.

Topics to be discussed will be connected with the use in supporting the process of business decisions making and data acquisition for decision making purposes, such methods and tools as (but will not be restricted to):

- Multi-Criteria Decision Analysis (MCDA),
- Operational Research Methods,
- Multidimensional Comparative Analysis (MCA),
- Modeling and Computer Simulation,
- Econometric and Statistical Methods,
- Brain Neuroimaging Methods (EEG, MEG, fMRI, etc.),
- Psychophysiological Methods (GSR, HR, EMG),
- Focus Group Interview (FGI),
- Individual in-Depth Interviews (IDI),
- Ethnographic research in respondents' homes,
- Eye-Tracking,
- Microexpression Measurements,
- Data Text Mining,
- Webtracing.
- IT Tools,
- Decision Support Systems,
- Computer Games,
- Virtual Reality

and other methods and tools.

The format of the papers is the same as in the general KES conference and should present original research work.

**Main Contributing Researchers / Research Centres (tentative, if known at this stage):****Website URL of Call for Papers (if any):****Email & Contact Details:**

Kesra.nermend@usz.edu.pl