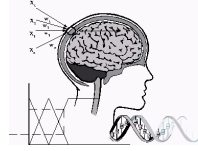




# International

*Innovation in Knowledge Based and Intelligent  
Engineering Systems*



## INVITED SESSION SUMMARY

**Title of Session:**

Visual paradigm in engineering

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

Chair:

Prof. Przemysław Różewski, West Pomeranian University of Technology in Szczecin, Poland

Co-Chaired by

Prof. Roberto Therón, Universidad de Salamanca, Spain

Co-Chaired by:

Dr Katarzyna Łobacz, University of Szczecin, Poland

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

Visualization is a cross disciplinary field which has its theoretical roots in human information behaviour and cognitive science. The one uses the visualization as graphical representation of information, data, processes and more. By using visual elements like charts, graphs, and maps, visualization tools provide an accessible way to see and understand trends, outliers, and patterns in different engineering processes and events.

This session is aimed at industrial and academic researchers applying visual paradigm to help people interpret complex phenomena, to control engineering processes, make easiest access to Knowledge-Based or make more informed decisions based on data. The key areas of this session include, but are not limited to the following:

- Visual literacy
- Visual aspect of Intelligent Information Systems
- Requirements for visualization in different manufacturing industries and Intelligent Engineering Systems
- Successful approaches (application examples) of visualization in different manufacturing industries
- Visual data analysis
- Complex objects and processes visualization
- VR and AR in engineering
- Data-driven storytelling
- Human-in-the-loop processing

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

**Website URL of Call for Papers (if any):**

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