



**INTERNATIONAL**

## INVITED SESSION SUMMARY

**Title of Session:**

Advances in Intelligent Data Processing and its Applications

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

Prof. M. Favorskaya, Reshetnev Siberian State University of Science and Technology, Russian Federation

Prof. L. Jain, University of Technology Sydney, Australia and Liverpool Hope University, UK

Prof. M. Sergeev, Saint Petersburg State University of Aerospace Instrumentation, Russian Federation

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

**RESEARCH PAPERS ARE INVITED ON ALL ASPECTS OF INTELLIGENT DATA PROCESSING AND ITS APPLICATIONS**

Intelligent data processing including different types of data is the cornerstone of tremendous amount of numerical methods and algorithms. The goal of this session is to develop the methodologies of intelligent data processing, as well as the software tools in different practical applications.

The topics of interests include but are not limited to:

- Intelligent visual and audio data processing
- Intelligent forecasting applications
- Orthogonal matrices and their applications
- Images compression and protection
- Transmission media and data encoding
- Convolutional neural networks for object recognition
- Watermarking paradigms
- Visual question answering
- Hybrid artificial intelligent systems
- Enhanced software tools
- Evaluation and stability in intelligent systems
- Intelligent human-computer interaction systems
- Mobility intelligence and semantic applications
- Intelligent security systems and applications

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

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