



INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:

Intelligent Video Processing and Transmission Systems

Name, Title and Affiliation of Chairs:

Prof. Margarita N. Favorskaya, **Siberian State Aerospace University, Russia**

Prof. Lakhmi C. Jain, University of South Australia, Australia

Prof. Mikhail Sergeev, Saint-Petersburg State University of Aerospace Instrumentation, ITMO University, Russia

Details of Session (including aim and scope):

RESEARCH PAPERS ARE INVITED ON ALL ASPECTS OF VIDEO PROCESSING AND TRANSMISSION SYSTEMS.

The humanity receives the main volume of environment knowledge as visual data. The systems for processing and transmission of visual data have the significant meaning for safe life of each person. The goal of this invited session is to develop the intelligent video processing and transmission technologies and also to discuss the functionality and architecture of such systems.

The topics include but are not limited to:

- Image and videos filtering, restoration and enhancement
- Image and videos representation and modelling
- Alarm events for surveillance (motion detection, object tracking, face recognitions)
- Development of 3D video analysis
- Image search and sorting, video indexing and editing
- Media transmission and data encoding
- Video coders and decoders
- Image storage, retrieval, and multimedia
- Enhanced software tools and hardware for video data integrity
- Transmission in noisy environments
- Secure data transmission systems
- Systems of virtual reality and computer graphics

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

Website URL of Call for Papers (if any):

Email & Contact Details:

Prof. Margarita N. Favorskaya

favorskaya@gmail.com