**Call for Papers on ICCMIT 2016:**

**“Intelligent Systems for Processing and Analysis of multi-dimensional signals and images”**

**Organized by:**

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**Objectives and Motivation**

The fast development of the contemporary information and communication technologies in the last years lead to the development of new kind of intelligent systems, aimed at the processing and analysis of multidimensional signals and images. These systems are the object of intensive scientific investigations, and the obtained results are already used in various application areas: computer vision, bioinformatics, telemedicine, remote sensing of the earth surface, robotics, virtual reality, management of large databases and of huge data streams, control of various manufacturing processes, transportation, etc. The multidimensional signals and images are of significant importance for establishing the relations between main parts of the AI systems, and support their functions in "Deep learning". For this reason, in the frame of the ICCMIT 2016 conference is offered this session, devoted to intelligent systems for processing and analysis of multidimensional signals and images.

**Scope and Interests**

The main objective of the offered session is to place a forum at the disposal of the researchers, working in the area, where they shall have the opportunity to present their resent results and to discuss the main problems and achievements of the AI systems, based on the processing and analysis of multidimensional signals and images.

This conference session may include, but is not limited to, the following topics:

* New approaches for representation of multidimensional signals and images;
* Intelligent methods for processing of multidimensional signals and images;
* Intelligent methods for analysis of multidimensional signals and images;
* Intelligent methods for recognition of multidimensional signals and images;
* Intelligent systems for management of large data bases of multidimensional signals and images;
* Intelligent systems for management of manufacturing processes, based on computer vision;
* Application of AI systems for processing and analysis of multidimensional signals and images in medicine;
* Application of AI systems for processing and analysis of multidimensional signals and images in robotics;
* Intelligent systems for data streams management in telecommunications;
* Intelligent systems for remote sensing, based on the processing of multispectral images;
* Pattern recognition in intelligent environment;
* Image and 3D data registration;
* New approaches for training of intelligent systems for processing and analysis of multidimensional signals and images.

**Important Dates**

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| **Paper submission deadline** | **15 February 2016** |
| **Notification of acceptance** | **28 February 2016** |
| **Camera ready and registration** | **15 March 2016** |
| **Conference Date** | **26-29 April 2016** |