

**INVITED SESSION SUMMARY****Title of Session:****Pattern Recognition: Trends, Applications and Challenges**

Submission deadline: 20 April 2018  
Notification of Acceptance: 20 May 2018  
Final paper publication files: 26 May 2018  
Authors registration deadline: 1 June 2018

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

Chair:  
Dr. Alessia Amelio, Ph.D., DIMES University of Calabria

Co-Chair:  
Assoc. Prof. Darko Brodić, Ph.D., University of Belgrade, Technical Faculty in Bor

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

This session includes pattern recognition techniques in machine learning and intelligent systems, their theoretical foundations, their applications and their main challenges in emerging technology. Pattern recognition techniques on multimedia data, including images, videos and documents are welcome, as well as innovative pattern-based methods for natural language processing, web analysis, and social network analysis and mining. Pattern discovery for new challenges in environmental and health engineering are also encouraged.

Topics to be discussed (but not limited to):

- Pattern analysis on image, video and document repositories
- Visualization of patterns in multimedia data
- Pattern discovery in graph data
- Pattern recognition in natural language processing
- Combinatorial pattern matching and discovery in multidimensional data
- Pattern extraction for Internet and web interface analysis
- Community detection in social networks
- Pattern discovery on environmental data
- Classification of sensor data and measurements
- Pattern recognition in chemical and physical data
- Application of data mining techniques for health preservation
- Application of pattern recognition in medicine
- Application of pattern recognition in the industry

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

**DIMES, University of Calabria, Italy**  
**Technical Faculty in Bor, University of Belgrade, Serbia**

**Website URL of Call for Papers (if any):****Email & Contact Details:**

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