



INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:

Pattern Recognition for Decision Making Systems

Name, Title and Affiliation of Chair:

Dr. Paolo Crippa, Department of Information Engineering, Università Politecnica delle Marche
Prof. Claudio Turchetti, Department of Information Engineering, Università Politecnica delle Marche

Details of Session (including aim and scope):

Pattern recognition is a fundamental issue in the design of many automated decision making systems. In these systems input data are typically acquired using sensors, then a representation of the acquired data is usually obtained using a feature extraction algorithm, and finally a decision is made based on the feature vector.

Particular interest is addressed to decision making systems based on pattern classification i.e. systems that are able to assign an unknown input pattern x to one out of more than two classes. Typical examples are speech and speaker recognition, face recognition, medical and healthcare decision making (ECG, EEG, sEMG, PPG, ...), and industrial quality control systems.

This session aims to presents original, unpublished results on recent advances in pattern recognition for decision making systems. The suggested but not limited scope of the session includes the following topics:

- Speaker recognition.
- Natural Language Processing and Recognition;
- Voice and Speech Recognition.
- Healthcare Applications of Pattern Recognition
- Industrial and Medical Applications of Pattern Recognition;
- Bioinformatics;
- Face recognition;
- Image Coding, Processing and Analysis;
- Computer vision and image understanding;
- Artificial Intelligent Techniques and Recognition;
- Document Processing and Recognition;
- Fuzzy and Hybrid Techniques in Pattern Recognition;
- Logical Combinatorial Pattern Recognition;
- Statistical & Structural Pattern Recognition;
- Neural Networks;
- Parallel and Distributed Pattern Recognition;
- Pattern Recognition Principles;
- Robotics and Remote Sensing Applications of Pattern Recognition;
- Shape and Texture Analysis;
- Signal Processing and Analysis;
- Special Hardware Architectures;
- Embedded systems.

Not only theoretical papers but also practical application papers will be welcome.

Please submit your 5 to 10 page paper using the conference web page. <http://idt-15.kesinternational.org/cms/Sdisplay.php>

Publication:

Accepted papers will be published by Springer in a volume of the Book Series entitled: "Smart Innovation, Systems and Technologies Series"

<http://www.springer.com/series/8767>

Important dates:

- Paper submission: 13 February 2015.
- Acceptance notification: 24 February 2015.
- Final paper submission and registration: 2 March 2015.
- Conference: 17 – 19 June 2015.

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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