



INVITED SESSION SUMMARY

Title of Session:

Efficient Statistical Learning for Large-Scale Dynamic Varying System Prediction

Name, Title and Affiliation of Chair:

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

Details of Session (including aim and scope):

With the exponential growth of data, conventional computational intelligence techniques have shown to have severe limitations in learning high-dimensional time varying systems. Thus, to cope with this new challenge in trying to model large scale dynamic systems, efficient learning algorithms offering fast learning speed, ease of implementation and minimal human intervention are required.

Topics of interest include but are not limited to:

- Theory
- Time Series Prediction;
- Deep Learning;
- Extreme Learning Machines;
- Sequential/Incremental Learning;
- Dimensionality Reduction.

- Applications
- Large Internet of Things (IoT) Applications;
- Large Video Data Analytics;
- Various Dynamic Varying Systems;
- Large Scale System Identification;
- Multi-Sensor Health Monitoring Systems;
- Big Data Time Series Regression.

The invited session papers should be prepared in Springer style and must be submitted electronically using the [KES-IDT 2017 conference web page](#) (follow the KES-IDT 2017 guidelines for more information on paper submission).

Publication:

The conference proceedings will be published by Springer as book chapters in a volume of the [KES Smart Innovation Systems and Technologies](#) series.

Important dates:

- Paper submission: **Extended 13 February 2017.**
- Notification of acceptance: **Extended 6 March 2017.**
- Camera ready papers submission: **Extended 20 March 2017.**

- Conference: 21 – 23 June 2017.

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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