

Invited Session on SMART MAINTENANCE: New challenges and recent achievements

The smart maintenance (SM) represents the future of maintenance, especially in the context of the Industry 4.0 revolution that refers to the technological evolution of embedded systems to cyber-physical systems. It enables equipment to achieve and sustain a near-zero breakdown performance with self-maintenance capabilities, and ultimately to realize the autonomous transformation of raw data to useful information for improved reliability, productivity and asset utilization.

Smart maintenance focused on frontier technologies in predictive analytics including:

- Prognostics and health management (PHM) which is the discipline that links the study of failure mechanisms to system lifecycle management; using information to allow early detection of impending or incipient faults, remaining useful life calculations, and logistical decision-making based on predictions.
- Cloud computing (CC),
- Internet of things (IoT) and Industrial internet of thing (IIoT),
- Big data analytics (BDA),
- Intelligent decision and Distributed post-prognostic decision.

This special session aims at providing a deep insight on the evolution of the research works and projects in this area. It will be an opportunity for researchers to present and discuss their contributions. It will be also, the crossroads where maintenance specialists and those working in the field of Information and Communication Technologies meet.

Topics to be included are related to Smart maintenance, Intelligent PHM, Cloud maintenance, Iot-based maintenance solutions, Cyber-physical systems, Cloud-enhanced predictive maintenance, post-prognostic decision ...etc.

1. IMPORTANT INFORMATION

- Submission of draft papers: 20 november 2017
- Submission website: <http://aset.ieee.tn/authors/submissions/>
- Conference website: <http://aset.ieee.tn/>

2. ORGANIZERS

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