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Special Session SS03. on “Machine learning for data-driven predictive maintenance in the Industry 4.0 framework”



ORGANIZED AND CO-CHAired BY

Luis Romeral Martínez, Technical University of Catalonia, Barcelona, Spain, luis.romeral@upc.edu
Roque A. Osornio Rios, Autonomous University of Queretaro, Queretaro, Mexico, raor@uaq.mx
Miguel Delgado Prieto, Technical University of Catalonia, Barcelona, Spain, miguel.delgado@upc.edu

OUTLINE

This special session is focused on the application of machine learning methods in data-driven maintenance systems for the industrial sector. The investigation towards advanced predictive maintenance strategies is being required to enable an actual implementation of the Industry 4.0, in which the digitized industrial assets must provide now advanced industrial maintenance capabilities. In this regard, the main topics of interest of this session are the novel developments and challenges in bringing the concepts of Intelligent manufacturing, Data analytics and Industrial Internet of Things to the Predictive maintenance which is becoming a major scientific and technology trend worldwide.

TOPICS

This special session will be focusing on (but not limited to) the following topics:

- Artificial intelligence, Machine learning and Deep learning,
- Multi-fault diagnosis and Data fusion strategies,
- Novelty detection and Incremental learning,
- Condition monitoring and Decision support systems,
- Processes modelling and Operation optimization,
- Pre-processing and data analysis, Characteristic fault features,
- Complex industrial and manufacturing systems.

Author's schedule (NEW!!):

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| ➤ Deadline for submission of special session papers | April 27, 2018 |
| ➤ Notification of acceptance | June 1, 2018 |
| ➤ Deadline for submission of final manuscripts | July 6, 2018 |