



Call for Papers

SS04 – New trends on artificial intelligence based schemes applied to predictive maintenance solutions under the Industry 4.0 framework

Organized and co-chaired by

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+ FOCUS.

Artificial intelligence based solutions represent a critical need in order to assess and address the impact and potentiality of such emerging technology towards the next generation of factory automation under the so called Industry 4.0 framework. This special session is focused on the application of artificial intelligence technologies, such as machine learning or deep learning, but also cognitive computing or computer vision, to predictive maintenance schemes in the industrial sector. Specifically, the interests of this session are the novel developments and challenges in bringing the concepts of intelligent manufacturing, cyber-physical systems, data analytics and industrial internet of things to the supervision, maintenance and control of manufacturing applications.

+ TOPICS

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

- Condition monitoring and decision support systems
- Processes modelling and operation optimization
- Cyber-physical systems for industrial applications
- Cognitive computing and computer vision for process monitoring
- Novelty detection and incremental learning
- Multi-fault diagnosis and data fusion strategies

+ AUTHOR'S SCHEDULE (2019)

❖ Regular and special sessions papers

Submission deadline	April 4	April 22
Acceptance notification	May 6	May 20
Deadline for final manuscripts	June 17	June 27

