

Special Issue

Artificial Intelligence for Cyber-Enabled Industrial Systems

Message from the Guest Editors

Advances in sensors, data collection, and communication technologies have paved the way for the collection and accumulation of large amounts of data in manufacturing, energy, transportation, health care, finance and more. Additionally, the availability and affordability of computational platforms provide a tremendous opportunity to fuse, synchronize and analyze the multi-dimensional data and extract actionable information that can bring transparency and improve the efficiency, productivity and availability of industrial machinery. This Special Issue aims to provide a platform for multidisciplinary articles that investigate the state-of-the-art data analytics and Artificial Intelligence (AI) techniques in industrial applications with emphasis on practical aspects and implementation. Relevant topics for this Special Issue include, but are not limited to:

- Transformative technologies for realizing Industry 4.0
- Systematic methodologies for industrial big data analytics
- Integration of physics-based and data-driven models for realization of Cyber-Physical Systems
- Intelligent decision support tools
- Sensor-rich and sensor-less methods for prognostics and health management

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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