Special Issue

Fault Detection, Diagnosis, and Recovery: Concept, Modeling, and Optimization

Message from the Guest Editor

Fault detection and diagnosis, which is a key component of many operations management automation systems, become a complicated process in complex systems (CS) and systems of systems (SoS). In such systems, automated fault detection and diagnosis depends heavily on input from sensors or derived measures of performance that must be differentiated and analyzed through big data techniques. As a result, further development in monitoring, detection, diagnosis, and recovery techniques, modeling, and optimization is a must. Therefore, this Special Issue will bring together papers, which particularly describe recent advances in monitoring, detection, diagnosis, and recovery mechanisms with an emphasis on CS and SoS, describing the application of novel theories across all areas for improving operation management automation. Papers that include practical experimental results are particularly encouraged. Keywords

- Intelligent Fault Detection and Diagnosis
- Heuristic Methods for Fault Detection and Diagnosis
- Big Data for Fault Detection and Diagnosis
- Fault Isolation in Systems of Systems (SoS)
- System Monitoring
- Condition Based Monitoring
- Measures of Performance

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2021)

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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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