



Systems Engineering: Availability and Reliability

Guest Editors:

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Message from the Guest Editors

Current trends in Industry 4.0 are largely related to issues of reliability and availability. As a result of these trends and engineering systems' complexity, research and development needs now refer to new solutions in the integration of intelligent machines or systems, with emphasis on changes in production processes aimed at increasing production efficiency or equipment reliability.

Proposed topics of the Special Issue include but are not limited to the following:

Deadline for manuscript
submissions:

closed (30 November 2021)

- Smart factories and Industrial Internet of Things (IIoT), machine to machine communication (M2M);
- Data mining and Big Data
- Digitalization and virtual reality, robotics;
- Systems analysis, simulation, design, and modeling;
- Real time production scheduling;
- Production systems management and maintenance;
- Software tools for production and maintenance;
- Knowledge management and decision support systems in production;
- Artificial Intelligence methods in decision support systems;
- Predictive maintenance;
- Maintenance planning and scheduling;
- Reliability and risk assessment.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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