



Systems Engineering: Availability and Reliability

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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:

- 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.

