Special Issue

Reliability Evaluation for Industrial Systems: State of the Art

Message from the Guest Editors

The complexity of industrial systems and the high requirements for mission reliability have posed great challenges for reliability evaluation and the design of all types of machines. Therefore, effective modeling, simulation techniques, and methods for assisting reliability evaluation and design have been demanding. At the same time, failure physics analysis, reliability testing techniques, and effective data processing methods are required for verification and/or support of the assessment of design of those systems. With this Special Issue, we intend to collect state-of-the-art developments on reliability theories and engineering practices related to industrial systems and to highlight important directions as well as challenges for further development. The new wave of big data has posed new challenges to the reliability research community, given that traditional reliability models/methods were developed upon small/medium sized datasets. Therefore, new methods for big data such as deep learning need to be integrated into reliability models to cope with the new challenges.

Guest Editors

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Deadline for manuscript submissions

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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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