Special Issue

System Reliability and Predictive Maintenance in Industrial Engineering

Message from the Guest Editors

This issue aims at covering all the aspects related to system reliability and predictive maintenance in industrial engineering. In today's highly dynamic market, companies are increasingly interested in achieving operational excellence by optimizing the performance of physical assets. An essential element for the achievement of this objective is the guarantee of high levels of asset reliability and availability, which can exploit the potential offered by the technological evolution on ICTs and system automation. In fact, the widespread presence of sensors and monitoring systems in industrial plants, coupled with analytics tools based on artificial intelligence and machine learning, makes it possible for decision-makers to have real-time data on operating conditions, performance and safety of their assets and advanced forecasting support for more efficient maintenance decisions. This Special Issue wants to share the experience of industrial engineers, both from industry and academia, and discuss the state of the art about approach, methods, tools and techniques on systems reliability and predictive maintenance.

Guest Editors

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Dr. Ahmad BahooToroody

Dr. Mohammad Mahdi Abaei

Deadline for manuscript submissions

closed (20 March 2025)

About the Journal

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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