Condition Monitoring and Intelligent Maintenance of Railway Infrastructure

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2023)

Message from the Guest Editor

Dear Colleagues,

Condition monitoring and intelligent maintenance systems are crucial to reduce railways' downtime and increase network availability, enabling new passenger services and reducing operational costs.

In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in the fields of non-destructive testing, condition-based maintenance, prognosis and health management, robotics application, autonomous maintenance systems, track geometry data analyses, and data and visual analytics.

Modeling and experimental studies are welcome, as well as comprehensive review and survey papers.

Keywords:

- non-destructive testing
- ultrasonics
- eddy currents
- condition-based maintenance
- prognosis
- health management
- robotics
- autonomous maintenance systems
- track geometry data
- data analytics
- visual analytics

Special Issue

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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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