

## Special Issue

# Vibration System Monitoring Real-Time Train and Track Condition Monitoring

### Message from the Guest Editor

The objective of this Special Issue is to explore the latest advancements and innovative approaches in vibration system monitoring for real-time train and track condition assessment. As railway networks undergo continuous growth and modernization, maintaining safe, reliable, and efficient train operations becomes increasingly critical. This Special Issue aims to gather high-quality research papers and reviews that focus on the development, implementation, and application of vibration monitoring technologies. Topics of interest include, but are not limited to:

- Sensor Technologies,
- Signal Processing Techniques,
- Data Analytics and Predictive Modelling,
- Practical Applications,
- System Integration.

We invite contributions from researchers, engineers, and industry professionals who are at the forefront of this field, with the goal of advancing the state of the art in train and track condition monitoring. This Special Issue will serve as a comprehensive resource of the latest research and developments, fostering collaboration and innovation in the railway industry.

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### Guest Editor

Dr. Fook Fah Yap

Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore, Singapore

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### Deadline for manuscript submissions

closed (20 August 2025)



## Sensors

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## About the Journal

### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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### Editor-in-Chief

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