# Special Issue

# Advances in Fault Diagnosis and Condition Monitoring of Intelligent Transportation Systems

## Message from the Guest Editors

This Special Issue focuses on the latest advances in fault diagnosis, defect detection, and predictive maintenance for railway vehicle systems, aiming to enhance operational safety, reliability, and sustainability through advanced sensing, data analytics, and artificial intelligence. It brings together cutting-edge research to address challenges in monitoring vehicles and infrastructure—such as wheelsets, bearings, and tracks—and supports the development of intelligent maintenance strategies for modern railways. The potential topics include but are not limited to the following:

- Advanced Sensing and Inspection Technologies
- Intelligent Fault Diagnosis and Prognosis
- Predictive Maintenance Strategies
- Structural Health Monitoring
- Non-Destructive Testing and Defect Detection
- Data Analytics and AI in Railways
- Remaining Useful Life Prediction

### **Guest Editors**

Dr. Kangwei Wang

Dr. Jin Zhang

Prof. Dr. Cheng Wu

## Deadline for manuscript submissions

31 October 2025



## **Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/237420

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics





## **Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



## **About the Journal**

## Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

#### Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

## **Author Benefits**

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

