

## Special Issue

# Advances in Inspection and Sensing Technologies

### Message from the Guest Editors

High-performance inspection and sensing technologies have become key enablers for advanced manufacturing, especially in the industries of semiconductor, consumer electronics, precision engineering, and fast-moving consumer goods (FMCG). As the frontier of data collection, these technologies are also the critical elements for Industry 4.0. Inspection and sensing technologies have seen rapid development in the recent decade, driven by emerging concepts in the areas of electronics, optics, quantum physics, digitalization, and artificial intelligence.

As inspection and sensing applications involve multi-discipline topics, this Special Issue will welcome researchers from different areas to contribute high-quality submissions. The topics of interest will include, but not be limited to, the following:

- Intelligent inspection;
- Sensing technologies;
- Sensor fusion;
- Image/data fusion;
- Machine vision;
- Machine learning and deep learning;
- Condition monitoring and predictive maintenance;
- Non-destructive testing (NDT);
- Optics and photonics;
- In-line inspection and instrumentation;

---

### Guest Editors

Dr. Fang Cheng

Dr. Tegoeh Tjahjowidodo

Dr. Andrew Alexander Malcolm

---

### Deadline for manuscript submissions

closed (30 November 2022)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/74046](https://mdpi.com/si/74046)

*Electronics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)



## 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 guest-edited 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).