

## Special Issue

# Emerging Technologies in Object Detection, Tracking, and Localization

### Message from the Guest Editors

Target detection, tracking, and localization (TDTL) aim to acquire the kinematic state (i.e., position and velocity) or other spatiotemporal characteristics of a single target or multiple targets based on the available sensory observations. This Special Issue will focus on the latest advances in intelligent TDTL techniques. Its core topics include artificial intelligence, machine learning, and TDTL techniques. Prospective authors are invited to submit their novel and original manuscripts about the theoretical underpinnings and the practical applications of these techniques. Potential topics of interest include, but are not limited to:

- Signal detection, estimation, and filtering;
- Nonparametric analysis of time series;
- Mathematical optimization;
- Advanced signal and information processing;
- Machine learning and neural network approaches for TDTL;
- Networked estimation and filtering;
- Cooperative localization;
- Cooperative tracking;
- Simultaneous localization and target tracking;
- Sensor fusion in navigation systems;
- Bayesian target tracking;
- Interesting applications to TDTL.

[https://www.mdpi.com/journal/electronics/special\\_issues/I9Q4B7H689](https://www.mdpi.com/journal/electronics/special_issues/I9Q4B7H689) Welcome to contribute!

### Guest Editors

Dr. Linfeng Xu

Prof. Dr. Gongjian Zhou

Prof. Dr. Liangqun Li

Dr. Yongxin Gao

### Deadline for manuscript submissions

closed (31 August 2023)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/131629](https://mdpi.com/si/131629)

*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).