

Special Issue

Cooperative Perception for Modern Transportation

Message from the Guest Editors

This Special Issue aims to explore the modeling theories and methods for UAV and self-driving vehicles (SDVs) in intelligent transportation systems. The efficiency of traffic management can be greatly improved by leveraging the high-altitude monitoring and rapid response capabilities of drones, combined with the big data analysis and real-time monitoring technology of intelligent transportation systems. Simultaneously, it can also be applied to the field of public safety and logistics distribution, improving the overall benefit to society and human quality of life. Collaborative perception processes and integrates data collected by multiple collaborative sensors to produce more accurate and complete perceptual results. It solves the two main problems of remote occlusion and sparse data in single perception. It usually involves algorithms and technologies such as data processing, distributed computing, and artificial intelligence. These greatly improve the ability of the drones to integrate information with the existing sensors in the intelligent transportation system.

Guest Editors

Dr. Jinsheng Xiao

Dr. Jian Zhou

Dr. Sheng Bao

Dr. Hailong Shi

Deadline for manuscript submissions

18 February 2025



Drones

an Open Access Journal
by MDPI

Impact Factor 4.4
CiteScore 5.6



mdpi.com/si/211053

Drones

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
drones@mdpi.com

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





Drones

an Open Access Journal
by MDPI

Impact Factor 4.4
CiteScore 5.6



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



About the Journal

Message from the Editor-in-Chief

Drones is the only international open-access journal about the science, policy and technology of drones and its applications. Nowadays, the proliferation of drones is a reality for local policy makers, regulatory bodies, mapping authorities, startups and consolidated companies. There are many uses and benefits of drones: from the emergence of new sensors and the evolution of new platforms; to the development of specific software and the emergence of new applications. *Drones* publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. *Drones* seeks to provide a central forum for scholars engaged in drones' research and applications.

There is a need for high quality papers in this area and the *Drones* Editorial Board are widely recognized international leaders. *Drones* journal guarantees a serious peer review and a rapid publication across the whole discipline of drones.

Editor-in-Chief

Prof. Dr. Diego González-Aguilera

Cartographic and Land Engineering Department, Higher Polytechnic School of Avila, University of Salamanca, Hornos Caleros, 50 05003 Avila, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility

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

Journal Rank:

JCR - Q1 (Remote Sensing) / CiteScore - Q1 (Aerospace Engineering)