Advances in Detection and Tracking Applications for Drones and UAM Systems

Guest Editors:

Prof. Dr. Giancarlo Rufino
Department of Industrial Engineering. University of Naples Federico II, 80125 Naples, Italy

Dr. Claudia Conte
Department of Industrial Engineering. University of Naples Federico II, 80125 Naples, Italy

Deadline for manuscript submissions:
closed (10 May 2025)

Message from the Guest Editors

Dear Colleagues,

The proposed Special Issue aims to investigate innovative detection and tracking solutions that can be used for navigation, traffic management, traffic integration, detect-and-avoid, and surveillance purposes. Artificial Intelligence techniques can be used for proper data processing in simulated or real scenarios. Advances in on-board data processing for target detection and tracking aim to improve aerial vehicle performance or advanced payload tasks. Surveillance can be supported by properly designed ground systems and services also considering the Urban Air Mobility scenario under developement.

We are pleased to invite original contributions and reviews. Topics can be related (but not limited) to the detection and tracking of targets and incoming traffic for navigation, traffic management, traffic integration, detection and tracking of Unmanned Aerial Systems for surveillance, detect-and-avoid, Urban Air Moblity applications and services, innovative image processing and sensor fusion, advanced solutions based on electro-optical, radar and/or lidar.

Prof. Dr. Giancarlo Rufino
Dr. Claudia Conte

mdpi.com/si/164197

SpecialIssue

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

Message from the Editor-in-Chief

Drones is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

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)

Contact Us