

## Special Issue

# Advances in Modeling, Estimation, and Control of Intelligent Transportation Systems

### Message from the Guest Editors

This Special Issue aims to explore the modeling theories and methods for UAV and SDV in intelligent transportation systems. Further, the evolutionary mechanisms of the system are characterized by direct measurements versus indirect estimates and short-term predictions. Finally, advanced control algorithms are built based on models and data to enhance the safety and intelligence of transportation. Topics including but not limited to the following:

- Application of artificial intelligence, modeling, simulation, and dynamic analysis of the collaboration system for unmanned aerial vehicles and self-driving vehicles;
- Unmanned aerial vehicle and self-driving vehicle decision making in a complex urban traffic environment;
- Parameter identification and state estimation, coordinated control and fault-tolerant control of unmanned aerial vehicles and self-driving vehicles;
- Advanced control for critical components of self-driving vehicles;
- Failure monitoring and protection of unmanned aerial vehicles and self-driving vehicles;
- Design of new sensors and novel estimation and data fusion algorithms for unmanned aerial vehicles and self-driving vehicles.

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### Guest Editors

Dr. Chao Huang

Dr. Yan Wang

Dr. Zhaojian Li

Dr. Henglai Wei

Dr. Zhongxu Hu

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### Deadline for manuscript submissions

closed (30 November 2024)



## Drones

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Diego González-Aguilera

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