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

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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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Special Issue

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Editor-in-Chief

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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.

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