# **Special Issue**

# New Trends in Robust and Adaptive Control for Autonomous Systems

#### Message from the Guest Editors

Robust and adaptive control is critical to ensuring the performance and safety of autonomous systems, such as UAVs and other unmanned vehicles, especially when operating in dynamic and challenging environments. These control techniques enable autonomous systems not only to adapt to operational changes, but also to overcome external disturbances while compensating for internal system uncertainties. As autonomous vehicles become increasingly crucial in applications such as precision agriculture, logistics, and industrial automation, the development of advanced control methodologies that enhance both their autonomy and reliability is essential.

We invite authors to submit original research articles and reviews. The scope of this Special Issue includes, but is not limited to:

- robust control methods for autonomous systems
- adaptive control techniques suited to dynamic environments
- the modeling of autonomous systems and the affecting disturbances
- estimation and compensation strategies for handling uncertainties in control design
- the application of robust and adaptive control in various fields
- the integration of control algorithms within multi-agent systems and UAV networks

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#### Deadline for manuscript submissions

closed (30 April 2025)



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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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