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Emerging Technologies and Innovations in Unmanned Aerial Vehicle Control Systems

Guest Editor:

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Deadline for manuscript submissions:
closed (10 May 2025)

Message from the Guest Editor

Dear Colleagues,

Unmanned aerial systems are becoming a key factor in reducing the required time, risk, and cost related to a wide range of both military and civil applications. Enforced by the growing availability of miniaturized avionic systems, many efforts have been devoted to the development of novel design tools for optimal performance, efficient control laws, and accurate state estimation algorithms. By taking advantage of consolidated experience in both unmanned and conventional aviation, manufacturers and transport stakeholders are also investigating concepts of personal air transportation systems, where reliability, efficiency, and flexibility of guidance, navigation, and control laws is paramount.

This Special Issue aims to collect new developments and emerging technologies in the field of UAV control with reviews, regular research papers, communications, and short notes. We encourage submissions which provide the community with the most recent advancements in all aspects of guidance, navigation, and control.

Dr. Emanuele Luigi de Angelis
Guest Editor

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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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