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Conceptual Design, Modeling, and Control Strategies of Drones 3rd Edition

Guest Editor:

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Message from the Guest Editor

The use of aerial drones, which are also known as flying robots, unmanned aerial vehicles (UAVs) or airships; unmanned marine vehicles is rapidly expanding to numerous applications, such as communication, environmental monitoring, rescue operations, policing, video surveillance, product deliveries and smart agriculture. For these applications, the conceptual design, modeling and control strategies of aerial and marine drones are critical issues. Advanced methods of modeling, navigation and control play an important role in achieving the reliable, robust, secure and cost-effective functioning drones. This Special Issue is focused on new developments in the field of modeling, navigation and control strategies for various applications. Potential topics include, but are not limited to:

- UAV control systems;
- Advanced methods of UAV navigation and guidance;
- The navigation of autonomous underwater vehicles and unmanned surface vehicles;
- Mathematical models of aerial and marine drones;
- The navigation and control of UAVs, ground vehicles, aerial and marine drones for surveillance, environmental, delivery, rescue, smart agriculture, policing and security applications.

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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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