

Special Issue

AI-Assisted Control Strategies and Their Applications to the Stabilization, Guidance and Navigation of Drones

Message from the Guest Editor

The design of drones involves a multitude of factors, including their structure, power systems and onboard sensors. Optimizing these elements can enhance the drone's efficiency, durability and functionality, enabling it to perform better and withstand various operational conditions. The dynamics of drones, which involve their movement patterns, stability and control systems, are also crucial. Understanding and improving these dynamics can lead to more precise and reliable drone operations. Navigation is another key aspect of drone technology. It involves the guidance, control and coordination mechanisms that allow drones to move from one location to another, avoid obstacles and perform their tasks. Improving navigation systems can enhance the autonomy of drones, enabling them to operate in more complex and unpredictable environments. This Special Issue aims to explore these topics and highlight the latest advancements in the field.

Guest Editor

Dr. Agostino De Marco

Department of Industrial Engineering, University of Naples Federico II, Napoli, Italy

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Drones
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
drones@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Diego González-Aguilera

Cartographic and Land Engineering Department, Higher Polytechnic School of Avila, University of Salamanca, Hornos Caleros, 50 05003 Avila, Spain

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