Special Issue

Intelligent Unmanned Aerial Vehicles Control, Navigation and Applications

Message from the Guest Editor

Unmanned Aerial Vehicles (UAVs) have become an indispensable technology in modern society, finding widespread applications in surveillance, logistics, environmental monitoring, agriculture, and disaster management. Intelligent control, navigation, and decision-making systems are the core technologies that enable UAVs to operate safely, autonomously, and efficiently in complex and dynamic environments. However, the diversity of flight conditions, mission objectives, and environmental constraints poses significant challenges to the design and implementation of such intelligent systems. Consequently, research on intelligent UAV control, navigation, and applications has gained increasing attention in recent years. This Special Issue aims to synthesize cutting-edge research and developments in the field of intelligent UAVs, addressing key challenges such as autonomous flight control, multi-sensor fusion for navigation, swarm coordination, and AI-based mission planning. Contributions focusing on theoretical advances, experimental validation, and emerging applications are highly encouraged.

Guest Editor

Dr. Xiaolei Hou
School of Automation, Northwestern Polytechnical University, Xi'an 710129, China

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

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There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso
CISE—Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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