

Special Issue

Visual Language Models and Large Language Models for Unmanned Aerial Vehicles

Message from the Guest Editors

The rapid advancements in artificial intelligence, particularly in the domains of computer vision and natural language processing, have created new possibilities for enhancing the capabilities of UAVs. This Special Issue aims to explore the integration of Visual Language Models (VLMs) and Large Language Models (LLMs) into UAVs, focusing on their potential applications, challenges, and future directions. The Special Issue encourages submissions from researchers, engineers, and practitioners working at the intersection of computer vision, natural language processing, and UAV technologies. We hope to foster cross-disciplinary collaborations and accelerate the development of intelligent and autonomous UAV systems powered by Visual Language Models and Large Language Models to enhance the capabilities of drones in object detection, image captioning, and human-machine interaction etc.

Guest Editors

Prof. Dr. Carlos Tavares Calafate
Prof. Dr. I. de Zarzà
Prof. Dr. Joaquim de Curtò i Díaz

Deadline for manuscript submissions

closed (16 October 2025)



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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

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