Special Issue

Advances in AI Large Models for Unmanned Aerial Vehicles

Message from the Guest Editors

Integrating generative pre-trained transformers (GPTs) with unmanned aerial vehicles (UAVs) introduces a transformative model for intelligent low-altitude services, where autonomous drone networks play a pivotal role. This advancement is crucial for the emerging low-altitude economy, optimizing real-time decision-making, reducing latency, and enhancing operational efficiency in sectors such as logistics, surveillance, and disaster response. GPTs strengthen UAV operations by enabling sophisticated natural language processing, allowing UAVs to interpret commands, navigate complex environments, and interact dynamically with users. This combination creates a flexible platform capable of advanced data analysis, situational awareness, and autonomous functionalities, all essential for the future of low-altitude applications. This Special Issue will gather pioneering research on integrating GPTs and UAVs, aiming to explore their synergies and advance the development of intelligent, autonomous, and low-latency aerial services in next-generation networks.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Drones is the only international open-access journal about the science, policy and technology of drones and its applications. Nowadays, the proliferation of drones is a reality for local policy makers, regulatory bodies, mapping authorities, startups and consolidated companies. There are many uses and benefits of drones: from the emergence of new sensors and the evolution of new platforms; to the development of specific software and the emergence of new applications. *Drones* publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. *Drones* seeks to provide a central forum for scholars engaged in drones' research and applications.
There is a need for high quality papers in this area and the *Drones* Editorial Board are widely recognized international leaders. *Drones* journal guarantees a serious peer review and a rapid publication across the whole discipline of drones.

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