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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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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