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# Artificial Intelligence (AI) and Machine Learning (ML) in UAV **Technology**

Guest Editors:

Message from the Guest Editors

Dr. Zhaodan Kong

Dear Colleagues.

Dr. Peng Wei

Dr. William J. Beksi

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Deadline for manuscript submissions.

31 October 2024

Uncrewed aerial vehicles (UAVs) have witnessed a significant surge in applications across various industries over the past few decades. Integrating intelligence (AI) and machine learning (ML) with UAV technology significantly enhances the capability of UAVs in various aspects, such as object recognition, autonomous navigation, obstacle avoidance, real-time decision, and teaming.

This Special Issue aims to spotlight the significant, on the one hand, basic research on enhancing/enabling UAV capabilities with AI and ML, and, on the other hand, applied research on the broader adoption and application of UAVs across diverse fields with the help of AI and ML.

Topics for submission include, but are not limited to:

- AI/ML-driven UAV Perception Object and Detection/Tracking
- AI/ML-driven UAV Localization and Navigation
- AI/ML-driven Decision Making in UAV Operations
- AI/ML-driven UAV Trajectory and Motion Planning
- AI/ML-driven UAV Control
- AI/ML-driven Swarm Coordination for UAVs
- AI/ML-assisted Geospatial Mapping with UAVs
- AI/ML-assisted cision Agriculture with UA
- AI/ML-assisted



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## **Editor-in-Chief**

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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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