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AI-Powered Energy-Efficient UAV Communications

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Message from the Guest Editors

The efficient use of energy is critical for the successful deployment and operation of unmanned aerial vehicles (UAVs) in a variety of applications, including communication networks, surveillance, and transportation. The increasing demand for UAVs in different industries such as agriculture, logistics, and emergency response has led to the development of more advanced and sophisticated UAVs. However, the limited on-board energy resources of UAVs pose a significant challenge for their long-term operation and endurance. Additionally, machine learning and AI can enable UAVs to make more informed and intelligent decisions regarding their operations, leading to more energy-efficient and sustainable UAV deployment. Furthermore, the integration of recent technologies like reconfigurable intelligent surface (RIS), non-orthogonal multiple access (NOMA), satellites, etc. with UAVs empowers their application areas and future directions.

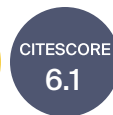


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Special Issue



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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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