

## Special Issue

# AI-Powered Energy-Efficient UAV Communications

### 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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### Deadline for manuscript submissions

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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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### Editor-in-Chief

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