



AI-Powered Energy-Efficient UAV Communications

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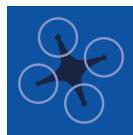
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Message from the Guest Editors

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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Message from the Editor-in-Chief

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