drones

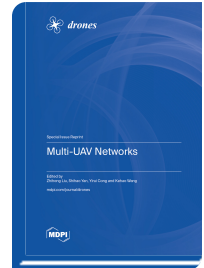*Special Issue Reprint*

Multi-UAV Networks

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Nowadays, multi-UAV systems reveal great potential value in applications such as surveillance, disaster rescue, mapping, cargo delivery, etc. Through coordination among multiple or even a swarm of UAVs, multi-UAV systems can improve mission capability, survivability, and flexibility. Regarding the key technologies, multi-UAV networks are the essential building blocks in multi-UAV systems, which provide the foundation for information transmission and further enable team behavior. This reprint presents a collection of cutting-edge research in the field of UAVs, showcasing advancements and innovations in the related areas. The featured papers cover topics such as object detection, cooperative exploration, authentication schemes, machine learning methods, connectivity maintenance, UAV deployment, intelligent mining, task assignment, and multi-UAV swarm control. They explore different aspects of UAV technology, highlighting novel approaches and algorithms that enhance the efficiency, security, and performance of UAV systems. From real-time object detection to decentralized exploration strategies and secure communication protocols, this reprint offers valuable insights into the potential of UAVs and their applications in diverse domains. It serves as a valuable resource for researchers, engineers, and practitioners seeking to stay at the forefront of UAV technology and leverage its capabilities to drive innovation in their respective fields.

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