

Special Issue

Mobile Fog and Edge Computing in Drone Swarms

Message from the Guest Editors

This Special Issue aims to push computation and data services toward the edge of the network, closer to the origin of the demand in order to mitigate network load as well as improve service quality by reducing end-to-end latency and overall backhaul bandwidth demand.

Potential research directions are fostered for this Special Issue, ranging from security and privacy issues to mobile fog and edge computing applied to drone swarm (SwarmFEC) deployment, from mobility management to resource optimization, and from joint coordination of aerial vehicles to wireless communications. Possible topics for SwarmFEC include but are not limited to:

- Communication models and protocols
- Dynamic fog/edge computing deployment
- Cooperative computing and scheduling strategy
- Costs of applications migration and workloads
- SwarmFEC support for the Internet of Things
- Security and privacy in services deployment
- Resource allocation and mobility models for energy management
- Software-defined networking support
- Optimization, learning, and AI to manage application deployment
- Spectrum coexistence and optimization
- SwarmFEC modeling, simulation, emulation, and experimentation

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Deadline for manuscript submissions

closed (29 April 2025)



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About the Journal

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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