Technologies and Applications of UAV Channel Models in Communications and Spectrum Awareness

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to highlight the recent advancements in UAV channel techniques and their applications across diverse disciplines, especially communication and spectrum awareness. Furthermore, this issue is dedicated to promoting a multidisciplinary dialogue among researchers and policymakers, shedding light on future directions in UAV technologies and applications. The focus is on enhancing UAV capabilities for communication and spectrum awareness.

This Special Issue will cover, but is not limited to, the following topics:

- Channel sounding technologies and system for A2G scenarios
- UAV channel models for mmWave and sub-Terahertz bands.
- AI-driven channel modelling technologies.
- AI-driven UAV control technologies.
- UAV-integrated sensing and communication (ISAC) systems.
- UAV-aided spectrum sensing and awareness.
- UAV mmWave communications technologies.
- UAV trajectory planning and optimization.
- Other applications of UAV channel model and communication.

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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