



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.

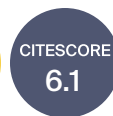
This Special Issue will cover, but is not limited to, the following topics:

- 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.





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Message from the Editor-in-Chief

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