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Unmanned Vehicles Systems Application

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Message from the Guest Editors

The Unmanned Aerial Vehicles (UAVs) and broader Unmanned Vehicles (UVs) market has significantly expanded, with increased commercial use in civilian applications like search and rescue, telecommunications, aerial photography, and disaster management. UVs operate without human intervention and are controlled remotely by radio control or automated guidance. A robust wireless communication system is essential for successful UV deployment. Additionally, UVs are advancing rapidly toward autonomous operations, marking a major technological leap in the industry. This special issue highlights advances in autonomy, reliability, and safety for UVs, with a focus on communication applications. Topics of interest include, but are not limited to:

- Navigation and control algorithms
- Autonomy and decision-making
- Perception and multi-sensor fusion
- Networked swarms
- Trajectory planning
- Resource allocation
- Data collection
- Network coverage
- Positioning optimization
- Physical layer security
- AI-based jammer detection and anti-jamming
- AI-based spoofer detection and anti-spoofing
- Emerging applications of UAV communications



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Special Issue



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Message from the Editor-in-Chief

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