

Special Issue

Unmanned Vehicles Systems Application

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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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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