

Special Issue

Security Challenges and Solutions in 6G and Low Earth Orbit (LEO) Satellite Networks

Message from the Guest Editors

This Special Issue aims to gather original research and comprehensive reviews that explore the security, privacy, and trust challenges arising in the convergence of 6G and LEO satellite networks. We welcome interdisciplinary work bridging communication theory, cryptography, AI, and space systems. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Security architectures for integrated 6G-LEO systems
- Post-quantum cryptography and key management for space networks
- AI-driven security orchestration in LEO-enabled 6G environments
- Lightweight and quantum-resistant cryptographic protocols for satellites
- Trust and authentication frameworks across space-terrestrial interfaces
- Secure routing, beamforming, and handover protocols in LEO constellations
- Privacy-preserving schemes for 6G satellite-enabled IoT and MTC (machine-type communication)
- Physical-layer security and jamming resilience in space-air-ground links
- Blockchain and decentralized identity for inter-satellite trust management
- Attack modeling and threat detection for 6G satellite systems

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About the Journal

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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 guestedited by leading experts in selected topics of interest.

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