

Special Issue

Privacy and Security for Wireless Sensor Networks: Technologies and Strategies

Message from the Guest Editors

Wireless Sensor Networks (WSNs) are evolving into Space–Air–Ground (SAG) architectures, integrating 6G, LEO satellites (NTN), and the Low-Altitude Economy (LAE). This transition relies on sensors and communication technologies for real-time data exchange but exposes WSNs to security risks. Challenges include securing resource-limited terminals, high-mobility links, and protecting against eavesdropping, spoofing, and AI-driven jamming. WSNs must also address the future threat of quantum computing. This Special Issue invites research on cybersecurity strategies, focusing on anti-jamming, AI solutions, RIS-assisted security, and quantum-resistant cryptography. Topics of interest include, but are not limited to:

- Physical layer security and anti-jamming/spoofing designs
- AI/large model-driven adaptive security solutions and orchestration
- Reconfigurable intelligent surface (RIS)-assisted security methods
- Secure network architectures and cross-domain routing protocols
- Authentication, authorization, and key management for massive scale
- Privacy-preserving transmission of location and mission data
- Supply chain security and trusted computing in hardware
- Application of quantum-resistant cryptography

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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