Special Issue

Security, Privacy and Threat Detection in Sensor Networks

Message from the Guest Editor

This Special Issue aims to explore innovative solutions to address the unique challenges faced by sensor networks, including securing communication, ensuring data privacy, and detecting and mitigating threats in resource-constrained environments. We are particularly interested in papers that focus on cutting-edge topics such as post-quantum cryptography, 5G/6G communications, and the use of AI for threat detection and network analysis. Contributions on cryptographic techniques resistant to quantum computing, efficient and scalable security protocols, and privacy-preserving methods tailored to sensor networks are highly encouraged. Additionally, we welcome research that investigates the potential of LLMs in enhancing security analytics, automating threat detection, and providing intelligent network monitoring. We also invite submissions on novel, lightweight solutions that can operate effectively within the limitations of sensor nodes, such as limited computational power and energy constraints. Papers that address real-world applications and emerging trends in securing sensor networks will be given priority.

Guest Editor

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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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