Special Issue

AI-Driven Cybersecurity, Resilience, and Trust Frameworks for Future Urban IoT Systems

Message from the Guest Editors

This Special Issue of *Electronics* invites original research and reviews on advanced methods, architectures, and frameworks that enhance the cybersecurity, resilience, and trust of urban IoT ecosystems. Contributions may address secure communication protocols, post-quantum cryptographic solutions, resilient and fault-tolerant system design, federated and distributed learning for IoT security, and real-time autonomous response systems. **Topics of interest include, but are not limited to:**

- AI/ML-based intrusion detection, anomaly detection, and predictive threat intelligence for urban IoT;
- Zero-trust architectures and continuous authentication mechanisms for urban infrastructures;
- Post-quantum cryptography and lightweight encryption for IoT and IIoT devices;
- Hardware–software co-design for secure, energy-efficient, and real-time IoT systems;
- FPGA and ASIC accelerator designs for AI-based security and privacy applications;
- Digital twin frameworks for urban IoT security testing, simulation, and resilience analysis;
- Resilient architectures for connected and autonomous vehicle systems;
- Low-power, real-time edge computing platforms for critical urban services.

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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.

Editor-in-Chief

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