Special Issue

Blockchain and Artificial Intelligence for Next-Generation Network and Cybersecurity

Message from the Guest Editors

This Special Issue seeks to explore how the integration of blockchain and AI can provide robust, intelligent, and scalable solutions for the security and reliability of future communication networks. The focus is on advancing the state of knowledge at the intersection of these technologies to address pressing challenges in both networking and cybersecurity domains.

The scope covers a wide range of research directions. Relevant topics include blockchain protocols for trustworthy and auditable data exchange in 5G and 6G environments, AI-enhanced intrusion detection and anomaly detection in vehicular and edge networks, privacy-preserving federated learning for distributed network infrastructures, decentralized identity and trust management for IoT ecosystems, and adversarial robustness for intelligent network services.

By bringing together advances in next-generation networks, cybersecurity, and privacy, this Special Issue will identify synergies, open challenges, and design patterns that can guide the development of trustworthy digital infrastructures at scale.

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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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