

Special Issue

Blockchain-Enabled IoT: Opportunities, Challenges, and Future Prospects

Message from the Guest Editor

In recent times, the technological spheres of Blockchain and the Internet of Things (IoT) have emerged as significant disruptors, with both leading a wave of innovation in their respective domains. Their intersection is now poised to redefine our approach to digital infrastructure and interconnected systems. Blockchain, known for its decentralized and secure architecture, has evolved beyond its cryptocurrency roots to become a foundational technology for various sectors, ensuring data integrity and trust in digital transactions. Its adoption in many areas, highlights its versatility and capacity to address complex data challenges. Conversely, IoT has been instrumental in driving the connected world, offering real-time data collection, automation, and enhanced operational efficiency across diverse industries. The integration of IoT with Blockchain opens up new avenues for secure, transparent, and reliable data exchange in interconnected systems. However, this integration also brings forth unique challenges related to scalability, interoperability, and energy efficiency that need to be addressed for optimal utilization.

Guest Editor

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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 guest-edited by leading experts in selected topics of interest.

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