Special Issue

Artificial Intelligence (AI) and Blockchain for Networking

Message from the Guest Editors

The convergence of Artificial Intelligence (AI) and blockchain technologies is transforming the landscape of modern communication networks. This Special Issue aims to explore the synergistic integration of AI algorithms with blockchain frameworks in order to address challenges in network optimization, trust, decentralization, security, and scalability. AI technologies, such as deep learning and reinforcement learning are being increasingly used to improve decision-making, traffic management, anomaly detection, and adaptive control in networking systems. Simultaneously, blockchain offers decentralized architectures that enhance transparency, data integrity, and privacy across heterogeneous networks and IoT ecosystems. This Special Issue invites original research articles, reviews, and case studies that explore the theoretical models, simulations, and practical implementations of AI and blockchain in networking environments. Topics of interest include secure and intelligent 6G systems, AI-driven consensus mechanisms, decentralized machine learning, smart contract applications in network services, and the role of blockchain in federated learning and edge computing.

Guest Editors

Prof. Dr. Adriana Téllez-Anguiano

Prof. Dr. Juan Carlos Olivares-Rojas

Prof. Dr. Juan Carlos Jáuregui-Correa

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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