

Special Issue

Ad Hoc Networks Combined with Blockchain for Web 3.0: System Design, Security, Privacy and AI-Driven Optimization

Message from the Guest Editors

Vehicular Ad Hoc Networks (VANETs), which apply mobile ad hoc networks to the vehicular scenario, have promoted advances in intelligent transportation systems (ITSs). Web 3.0, as the next version of the web powered by blockchain and artificial intelligence (AI), envisions a decentralized, autonomously controlled, intelligent, and de-trusted service paradigm. The integration of blockchain and AI into VANETs has the potential to significantly transform communication and interactions among vehicles, revolutionize the VANET architecture and trust models, and enhance VANET security and privacy within the context of Web 3.0. This Special Issue aims to examine the utilization of blockchain technology in VANETs for potential opportunities in constructing novel and decentralized VANET system architectures, secure and decentralized key management protocols, anonymous vehicle authentication and reputation management with no central trust, and secure AI-driven VANET optimization solutions for Web 3.0. More details: <https://www.mdpi.com/si/178060>

Guest Editors

Dr. Xiao Chen

Dr. Ruozhou Yu

Dr. Haiqin Wu

Deadline for manuscript submissions

closed (15 October 2024)



Electronics

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Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/178060

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

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Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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