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

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