

IET Blockchain

Call for Papers

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Special Issue on: Security, Privacy, and Trust in Blockchain and Web 3.0

The advent of Web 3.0, characterized by blockchain technologies, heralds a new era of open, trustless, and permissionless internet, breaking away from the constraints of centralized control and data monopolies. This evolution represents a paradigm shift in internet ethos, fostering a digital environment that resonates with autonomy, user control, and decentralization.

This special issue invites explorative studies that contribute to the broad spectrum of the security, privacy, and trust of blockchain and Web 3.0. We are looking for contributions that not only discuss the technological advancements but also engage with the profound social and economic implications of these changes. From the security architecture of Web 3.0, privacy protocols for digital identities, to trust mechanisms within its ecosystem, we encourage submissions that capture the multifaceted essence of blockchain and Web 3.0.

With this initiative, this special issue aims to compile a comprehensive scholarly narrative that delves into the security, privacy, and trust of blockchain and Web 3.0, inviting researchers and practitioners alike to contribute their unique perspectives and findings, thereby enriching our understanding and anticipation of this next monumental phase of the internet.

Topics of interest include, but are not limited to:

- Secure architectural paradigms for Web 3.0
- Privacy-enhanced Web 3.0 prototype systems
- Trust mechanisms in Decentralized Applications (DApps)
- Security and privacy in digital identity management
- Economic security within the Web 3.0 ecosystem
- Secure digital asset transactions in Web 3.0
- Secure ecosystem governance in Web 3.0
- Trust frameworks for social interactions in Web 3.0
- Case studies on security and trust in DAOs
- Reputation assessment mechanisms in Web 3.0
- Incentive mechanisms in Web 3.0
- Privacy protection technologies for Web 3.0
- Anomaly detection in user behaviour for Web 3.0
- Security and Traceability in asset transfer for Web 3.0

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