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Croatia October 14-17, 2025

CONFERENCE WEBSITE: https://bcca-conference.org/2025/Workshops/b4ti.php

About the Conference

The International Workshop on Blockchain for Decentralized Trust and Digital Identity (B4TI) addresses the fundamental challenge of establishing trust in digital environments. In an increasingly digital world, trust has become the cornerstone of all online interactions, yet the mechanisms to establish it reliably, efficiently, and equitably remain elusive. This workshop explores technological solutions to this core problem, focusing on approaches that enhance digital trust while respecting user autonomy.

Self-sovereign identity (SSI) represents a paradigm shift in addressing these challenges, emphasizing user control over personal data and identity claims. While SSI is conceptually independent of any specific technology, decentralized technologies such as blockchain, Distributed Ledger Technologies (DLTs), and advanced cryptographic mechanisms offer promising tools to implement SSI principles in practice. These technologies can provide the infrastructure for transparent, tamper-resistant, and user-controlled trust frameworks that reduce dependency on centralized authorities.

Important Dates

OCT 14

CONFERENCE DATE

October 14-17, 2025

The workshop is particularly interested in, but not limited to, research topics including the following:

Trust Models and Architectures: Investigating how trust relationships can be formalized, operationalized, and technically implemented across diverse contexts and domains, emphasizing frameworks that can adapt to different organizational structures and technical environments.

Blockchain and Decentralized Technologies: Examining how blockchain, distributed ledgers, and other decentralized infrastructures can provide the technical foundation for tamper-resistant, transparent, and verifiable identity systems.

Self-Sovereign Identity Principles: Exploring architectures and implementations that enable individuals to control their digital identities and personal data, focusing on user agency regardless of the underlying technology.

Cryptographic Foundations: Investigating advanced cryptographic techniques such as zero knowledge proofs, threshold signatures, and secure multiparty computation that enable privacy-preserving verification and selective disclosure.

Cross Trust Transfer: Addressing how trust established in one context can be securely transferred or recognized in other contexts while preserving user control and system integrity.

Traceability and Data Provenance: Highlight traceability importance in decentralized identity ecosystems and AI systems. This includes tracking the origin and evolution of data, credentials, and AI model updates, supporting transparency, preventing fraud, verifying data provenance, and enabling accountable decision-making in IoT, digital twins, and supply chain management. For AI, traceability ensures model updates can be audited, malicious behavior detected, and training contributions verified.

Governance and Standards: Developing frameworks that balance technical innovation with necessary governance measures, examining how standards and protocols, such as eIDAS 2.0 and GDPR, can enable interoperability while preserving flexibility and compliance. Lifecycle management of identifiers, including assignment, updating, and revocation, is a key aspect.

Real World Applications: Showcasing implementations and use cases across sectors, including finance, government services, healthcare, education, supply chain, and digital commerce that demonstrate the practical value of enhanced trust frameworks.

TOPICS OF INTEREST 2 topics

Research papers are invited in, but not limited to, the following areas:

- Uncategorized
- Cybersecurity & Privacy