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ATSIP conference **Ranking** : core2023 database <http://portal.core.edu.au/conf-ranks/2231/>

Special Session:

Blockchain for Sustainability and Industrial Resilience

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Description

This session is dedicated to exploring the potential of blockchain technology in advancing sustainability and industrial resilience objectives. It seeks to understand how blockchain can enhance transparency, efficiency, and accountability across various industries, including manufacturing, logistics, smart cities, and energy. Additionally, the workshop will delve into how blockchain, in conjunction with other technologies, can contribute to these goals. It serves as a platform for discussing and debating the challenges and opportunities presented by blockchain technology in the context of sustainability.

Moreover, this session will consider the impact of blockchain technology on the United Nations' Sustainable Development Goals (SDGs). With its potential to enhance transparency and efficiency, blockchain can play a crucial role in achieving these global goals. Its applications, from promoting sustainable and responsible consumption and production patterns to enabling affordable and clean energy, have transformative potential. The session aims to explore these possibilities and encourage research proposals aligning blockchain technology with the pursuit of the SDGs.

Participants are encouraged to submit proposals addressing the challenges and opportunities presented by blockchain technology in achieving sustainability objectives. This provides an opportunity for researchers to share their ideas and receive feedback from their peers.

Topics

Papers reporting novel research contributions are solicited for a broad range of topics that include:

- Fundamentals of Blockchain and Distributed Ledger Techniques for sustainable industry 4.0
- Blockchain platforms & technologies for industry 4.0
- Consensus algorithms
- Smart Contracts verification and generation for industrial use cases
- Protocols and algorithms based on Blockchain for industrial use cases
- Vulnerabilities and attacks in Blockchain-based industrial systems
- Security, privacy and trust of Blockchain and distributed ledger technology
- Interoperability solutions for Blockchain
- Blockchain based applications and services
- Blockchain applications for Sustainability and Industrial Resilience
- Blockchain in Fog and Cloud computing industrial applications
- Integration of Artificial Intelligence in Blockchain-based industrial systems