

IEEE COINS 2021

IEEE International Conference on Omni-layer Intelligent Systems

IEEE | IEEE RAS | IEEE CEDA | IEEE COMPUTER SOCIETY | VSA-TC IEEE CAS | E-HEALTH-TC IEEE COMSOC | TC-ICPS IEEE IES | IEEE IOT

Hybrid Event:
(On-site In-person Presentation & Virtual Presentation)

Barcelona, Spain
August 23-25, 2021



Call for
Papers

Track: Distributed Ledger Technologies and Blockchain

COINS is a premier conference devoted to omni-layer techniques for smart Internet of Things (IoT) systems, by identifying new perspectives and highlighting impending research issues and challenges. The topical area track "Distributed Ledger Technologies (DLT) and Blockchain" covers (but is not limited to) the following topics:

- Recent development in DLTs and Blockchain research
- DLT-based key management, identity management, authentication, and authorization, and access control
- DLT theory on IoT
- Blockchain theory on IoT
- Applications of DLT and Blockchain technology in edge, fog and cloud computing
- Development of DLT-IoT enabled sensor networks
- DLT-based IoT security solutions
- Blockchain-based IoT security solutions
- Decentralized security solutions for IoT using Blockchain schemes
- System design and implementation methods for Blockchain-based IoT systems
- IoT applications based on DLT
- IoT applications based on Blockchain technology
- Performance evaluation and experimental analysis of Blockchain IoT schemes
- Frameworks and software platforms for security in IoT
- Security and privacy in DLT for IoT
- Novel development of smart contracts in Blockchain-IoT ecosystem
- Provisioning of sensor enabled Blockchain-IoT architecture
- Deployment of IoT-based sensor-data management
- Integration of machine learning and deep learning algorithms for Blockchain-driven IoT-sensor-enabled solutions
- Design of novel consensus algorithms, mathematical models, decentralized frameworks, and sensor-enabled IoT solutions
- Development of novel cryptocurrencies for IoT applications
- Machine learning approaches for convergence of IoT and DLT
- Emerging architectures for security and privacy in IoT applications
- Efficient consensus protocols and algorithms for DLTs in IoT devices
- Threat and attack models for Blockchain in IoT
- DLTs and Blockchain in embedded and real-time systems
- DLTs and Blockchain in peer-to-peer and M2M communications
- Innovative decentralized cross-domain applications such as healthcare and energy system, smart home, smart building, smart city applications, and logistics

Track Co-Chairs

Xing Liu, Kwantlen Polytechnic University, Canada
Francois Verdier, Universite Cote d'Azur, France

Track Program Committee

Mingwu Chen, Langara College, Canada
Artem Barger, IBM Research, Haifa, Israel
Olivia Choudhury, Amazon, USA
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