

# COINS 2020

## IEEE International Conference on Omni-layer Intelligent systems

### Track Name: Blockchain and Distributed ledger technology (DLT)

#### Call for Papers

July 27-29, 2020  
Barcelona, Spain  
<https://coinsconf.com>



COINS is the premier conference devoted to omni-layer techniques for smart IoT systems, by identifying new perspectives and highlighting impending research issues and challenges. The special track "Blockchain and Internet of Things" 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
- Distributed Ledger Technology theory in IoT
- Theory of Blockchain in Internet of Things
- Applications of DLT and Blockchain 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 Distributed Ledger Technology
- 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 in the healthcare and energy system, smart home, smart building, smart city applications, logistics

## Organizing Committee

### Special Track Co-Chairs

Xing Liu, Kwantlen Polytechnic University, Canada

### Special Track Program Committee

Maria Bada, Cambridge University, UK

Frank Brandse, Inholland University of Applied Sciences, Netherlands

Isabel de la Torre Díez, University of Valladolid, Spain

Sofiane Hamrioui, University of Nantes, France

Yudong Liu, Western Washington University, USA

Alexis Morris, OCAD University, Canada

Marcel Müller, Technische Universität Berlin, Germany

Alon Newton, Microsoft, USA

Antti K. Piironen, Metropolia University of Applied Science, Finland

Jingtao Sun, National Institute of Informatics, Japan

### Key Dates



Submission of Regular Papers and Special Session Papers  
**March 06, 2020**



Notification of Paper Acceptance  
**May 06, 2020**



Camera-Ready Submission  
**May 16, 2020**

