

# IEEE COINS 2023

## IEEE International Conference on Omni-layer Intelligent Systems

IEEE | IEEE RAS | IEEE CEDA | IEEE COMPUTER SOCIETY | VSA-TC & NCAS TC IEEE CAS | E-HEALTH-TC IEEE COMSOC | CONTROL, ROBOTICS, AND MECHATRONICS TC & CLOUD AND WIRELESS SYSTEMS FOR INDUSTRIAL APPLICATIONS TC IEEE IES | IEEE IOT

Berlin, Germany | Hybrid

July 23-25, 2023

<https://coinsconf.com>



Call for  
Papers

### Hardware/Cyber Security & Privacy track

Due to the pervasiveness and the economic growth of the connected objects market, the security of IoT is of prime importance. IoT security has become an important field of research at universities and in the industry to thwart all types of attacks including cyber attacks and physical attacks which are possible due to the accessibility of IoT objects and their vulnerability against tampering. Securing the IoT is considered as a real challenge as the object has to meet both a high level of security against numerous attack types and low cost constraints coming from economic requirements. Furthermore, enforcement of privacy requirements, potentially in conflict with security requirements, is another key challenge in the context of IoT. The Hardware/Cyber Security & Privacy session of COINS provides an opportunity for researchers, academics, and industry participants to present their work and their current research topics in this area.

The topics of Hardware/Cyber & Security session of COINS include, but are not limited to:

- Hardware attacks & countermeasures
- Efficient and secure HW/SW implementations of IoT
- Fault-resistant and tamper-detection designs for IoT
- Lightweight cryptography for IoT
- Formal analysis of secure implementations for IoT
- Test platforms for evaluation of physical attacks on IoT
- Threat models and attack strategies in IoT
- Identity & Access Management in IoT
- IoT security protocols
- Authentication & enrolment mechanisms for IoT
- Cross-layer IoT security
- Secure operating systems in IoT
- System & data Integrity in IoT
- Secure updates in IoT
- Intrusion and malware detection in IoT
- Security of IoT edge computing
- Machine learning based security mechanisms from IoT
- Resilience-by-design in IoT
- Privacy-by-design in IoT
- Privacy and anonymization techniques in IoT
- Location based privacy in IoT

IEEE COINS will publish accepted papers in the conference proceedings and the proceedings will be submitted to the IEEE Xplore Digital library and indexing services.

#### TPC Members:

Francesco Regazzoni, Alari USI

Johanna Sepulveda, Airbus

Shivam Bhasin, NTU Singapore

Maurantonio Caprolu, Hamad Bin Khalifa University

Wei Cheng, Télécom Paris

Jean-Max Dutertre, Ecole des Mines St Etienne

Joaquin Garcia-Alfaro, Telecom SudParis

Said Gharout, Kigen

Naofumi Homma, Tohoku University

Myungchul Kim, KAIST

Youssef Laarouchi, EDF R&D

Debdeep Mukhopadhyay, IIT Kharagpur

Marc-Oliver Pahl, IMT Atlantique

Raphael Phan, Monash University

Vincent Nicomette: INSA Toulouse