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# S12: Applications of Blockchain Technology in Securing Data and Cyber-Physical Systems

## **Session organizers:**

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## **Session Summary:**

Cyber Security aspects like data security, privacy preservation and securing cyber-physical systems are more important now than ever. Protection from internal and external cyber threats is important for a company to avoid financial loss, reputation degradation and customer trust. Blockchain technology is a distributed ledger-based mechanism which proves itself in multiple real-world scenarios like providing trust in financial institutions, healthcare records management, decentralized applications etc. Blockchain technology is now a popular technology and researchers are testing its applicability in the field of cyber security. Blockchain technology can pave a new and improved way of acquiring, storing, processing and sharing data. Blockchain technology can improve how we perform confidentiality, integrity and availability for a cyber-physical system. The goal of this workshop is to provide a platform for all researchers working in the area of cyber security and applying blockchain technology. The workshop will provide a cutting-edge venue for the scientific community to present and discuss state-of-the-art ideas, models, frameworks and potential applications of blockchain technology for the cyber security domain.

## Topics involve but not limited to:

- applications of blockchain for IoT, and future systems like 5G and Beyond
- Lightweight protocols and algorithms for blockchains in IoT and Cyber-Physical Systems.



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- Blockchain enabled/augmented IoT and Cyber-Physical Systems
- Service-oriented blockchains in IoT and Cyber-Physical Systems
- Testbeds, simulation techniques, frameworks, and debugging tools related to blockchain for IoT and Cyber-Physical Systems
- Intelligent blockchain and consensus algorithms
- Performance analysis and optimization of blockchain for IoT and Cyber-Physical Systems
- Smart contracts and chain codes

### **Submission:**

In order to submit to this session, please write "S12" as a prefix to your manuscript name. for example, if you have your file name as "UAVmobility.pdf", the submitted file name should be "S12-UAVmobility.pdf."

Template: Template ( Word )(6 pages max , 2 more pages with extra fees) ( Latex )

#### **Submission link:**

https://easychair.org/conferences/?conf=icsca2022