SIN'22 CONF

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Call for Special Session on Intelligent Blockchain for Internet of Things

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In recent years, the Internet of Things (IoT) has emerged as a new and significant technology of the computing paradigm. The market demand for smart devices is projected to be worth trillions of pounds annually in the near future, and almost all businesses will use some sort of technology to improve their financial operations. However, as critical applications of the IoT rapidly increase (for instance, smart healthcare, smart grids, smart cities and smart finance), they face numerous security and privacy challenges.

Featured with decentralization, data immutability, secured data protection, blockchain brings opportunities in overcoming the above limitations of IoT. Despite the advantages of integrating blockchain with IoT, the fusion of blockchain and IoT poses several emerging challenges including poor scalability, difficulties in identifying malicious behaviours of blockchain, detecting vulnerable codes in smart contracts and maintaining reliable blockchain systems for IoT systems. Therefore, it becomes necessary to design and develop intelligent blockchain systems for IoT. The recent successes of AI in diverse application fields motivate the integration of AI with blockchain to overcome the challenges in blockchain for IoT.

In this special session, we aim to gather the state-of-art advances in enabling intelligent blockchain for IoT.

Topics targeted by this special session include but are not limited to the following:
- New concepts and architectures for intelligent Blockchain for IoT
- AI-enabled scalable Blockchain for IoT
- AI-enabled cloud/edge computing orchestration in Blockchain forIoT
- AI-enabled operation and maintenance of Blockchain systems forIoT
- Incentive mechanisms and game theory in Blockchain for IoT
- Communications, computing and storage issues in Blockchain empowered IoT
- Intelligent detection of malicious smart contracts for IoT
- Big data analytics to identify malicious behaviours on Blockchain for IoT
- Security and privacy issues with solutions in intelligent Blockchain for IoT
- Intelligent blockchain driven IoT applications

Special Session Organizers:

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- *Full Paper Submission:* Septembre 15, 2022
- *Notification of Acceptance:* September 21, 2022
- *Camera Ready Submission:* October 11, 2022

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