



**INTERNATIONAL**

## INVITED SESSION SUMMARY

**Title of Session:**

Blockchain Applications in IoT: Principles and Practices

**Name, Title and Affiliation of Chair:**

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**Details of Session (including aim and scope):****Scope:**

Blockchain is a new age technology that keeps record of every transaction performed using a cryptocurrency across server computers that are lined in a peer-to-peer network. Blockchain enables transactions to be secure, transparent and reliable. The integration of Blockchain and IoT can be seen as a remarkable opportunity by researchers and scientists' across the globe for solving pertinent real world problems. This Session focuses on the fundamentals of Blockchain technology along with the means and methods of its integration with Internet of Things (IoT). It allows the reader to have a deeper understanding of Blockchain technology, IoT and various application areas wherein both the technologies can be implemented. The session serves the purpose of providing adequate knowledge about the fundamentals of Blockchain & IoT to a common reader along with facilitating a research scholar identify some futuristic problem areas that emerge from the convergence of both technologies. Furthermore, it will be discussed relevant application areas such as smart city, e-healthcare, smart travel, etc. The papers may also talks through few popular case studies illustrating the implementation and benefits of using Blockchain & IoT. We hope that are efforts are appreciated and the reader benefits from this session.

**Coverage but not limited to:**

Enabling Technologies for Blockchain Technology  
Introduction to Blockchain  
Blockchain & IoT Architectures  
Blockchain Consensus Algorithms  
Blockchain Platforms  
Blockchain & IoT Application Development  
Blockchain for IoT enabled Healthcare  
Security & Privacy preservation using Blockchain for IoT systems  
Blockchain & IoT: A new era for Supply Chain Management  
Evolution of Cloud Computing using Blockchain and IoT  
Blockchain enabled Edge framework for Smart City Applications  
Efficient Energy trading using Blockchain and IIoT  
Blockchain and AI enabled Intelligent IoT Ecosystem  
Blockchain applicability for Travel & Tourism Industry  
Blockchain powered IoT for E-Governance  
Blockchain enabled IoT for secure and robust SDN  
Adoption challenges being faced by Blockchain & IoT

Smart Agriculture: Use of Blockchain & IoT  
Creation of Digital Oil Fields involving the application of Blockchain & IoT  
Blockchain enabled Smart Traffic Management Systems

**Main Contributing Researchers / Research Centres (tentative, if known at this stage):**

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