

4th International Conference on Smart Computing and Informatics (SCI 2020)



Call for Papers

Special Session on “Blockchain Technology: Foundations, Challenges and Applications”

Session Chair(s):

Prof. (Dr.) Sandeep Kumar Panda, Faculty of Science and Technology, ICFAI Foundation for Higher Education, Hyderabad, Telangana, INDIA.

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Theme of Session:

Blockchain- the term means different things to different people. For developers, it is a set of protocols and encryption techniques for secure data storage in a distributed network. For business and finance, it is a distributed ledger technology giving rise to new digital currency. For others, it is a tool that profoundly reshapes the society and economy through the decentralized world. But in all ways, the term Blockchain fascinates and captures imagination of many as the implication of the technology is significant. For the first time in human history, people across the world can trust each other and transact over a large peer-to-peer networks without any central authority. This proves that, trust can be built not only by centralized institution but also by protocols and cryptographic mechanisms. The potential and collaboration between organizations and individuals within peer networks makes it possible to potentially move to a global collaborative network without centralization. Blockchain is a complex social, economic and technological phenomenon. This question what the established terminologies of the modern worlds like currency, trust, economics and exchange would mean. To make any sense, one needs to realize how much insightful and potential it is in the context and the way it is technically developed. This special session presents the 360-degree view of the technology, its future application in various sectors and its impact on society and its economy.

The primary objective of this special session is to uncover the technical and non-technical aspects of blockchain. It highlights the significance of blockchain in the context of the evolving next generation internet. Here, we bring academicians, researchers and practitioners together in one platform and discuss the current research trends on applications of Blockchain Technology.

Topics of Interest:

We invite original (un-published) research contributions based on the above mentioned theme including following topics but not limited to

1. Introduction to Blockchain technology: An efficient trustworthy approach
2. Bitcoin: First generation Blockchain
3. Ethereum, Solidity, and Hyperledger Fabrics: Second generation Blockchain
4. Scalability Challenges in 21st century: Third generation Blockchain
5. Blockchain in Insurance
6. Blockchain in Land Registration
7. Blockchain in Healthcare
8. Blockchain in Smart Cities
9. Blockchain in Trading and Investments
10. Blockchain in Industrial and Manufacturing
11. Blockchain in Supply chain Management
12. Blockchain in Internet of Things
13. Blockchain in Machine Learning
14. Blockchain in Big data System
15. Blockchain in Copyright Protection
16. Smart Contracts
17. DApps
18. Blockchain in Energy Sector
19. E-voting
20. Security
21. Smart Contract Vulnerabilities
22. Crowdfunding
23. Policy considerations for Public and Private Blockchain
24. Software Engineering processes for blockchain based applications

Paper Submission Process: Please submit your paper (in word/pdf format) at email: skpanda00007@gmail.com, with Name of Special Session Mentioned in the subject line.

Important Dates:

Last Date of Paper Submission: September 3, 2020

Final manuscript Submission: September 19, 2020

Registration: September 20, 2020

Publication All accepted and registered papers of this special session will be published in Smart Innovation Systems and Technologies Series, Springer (Approved). Indexed in SCOPUS.

Submission Guidelines: All submissions must comply with the Springer SIST format: <https://www.springer.com/gp/authors-editors/conferenceproceedings/conference-proceedingsguidelines>