

CALL FOR PAPERS SPECIAL SESSION:

Blockchain: Applications, Challenges and Opportunities

Submission Deadline	Aug 18, 2019
Acceptance Notification	Sep 30, 2019
Camera-Ready	Oct 14, 2019
Registration	Oct 21, 2019

Blockchain is gradually becoming a mainstream technology with a huge potential for growth, adoption, and impact. Blockchain is seen as a transformational technology with many applications across many domains, and areas. Blockchain value lies in providing transactions and access to data in a trusted, secure, transparent, tamper-proof, and decentralized manner with no intermediaries. Still, blockchain faces key challenges that may hinder its massive adoption. These challenges include scalability, throughput, privacy, cost, efficiency, and regulations.

This Special Session of the international conference on Advanced Communication Systems and Information Security (ACOSIS) aims to bring together academia and industry for discussing the latest advances on the following themes:

- Design and engineering improvements to the protocols and architectures underpinning Blockchain;
- Convergence of Blockchain with other emerging technologies (e.g., Artificial Intelligence, Internet of Things);
- Insights of the technical, business, and societal implications of Blockchains based on deployed applications and case studies.

We welcome submissions of papers presenting original work. Submissions must not overlap with works that have been published or that are simultaneously considered for publication elsewhere. Specifically, we encourage researchers and industry experts to submit original contributions in the following major areas (indicative list, other related topics will also be considered):

Topics

- Applications for smart cities
- Auditability & traceability
- Blockchain in AI, Machine Learning, cyber security, Identity & Access Management
- Blockchain tools, simulators, & test-nets
- Blockchain-based IoT, fog, cloud, & mobile devices
- Blockchain in cyber-physical systems (CPS)
- Interoperability of blockchains
- Building private blockchain systems
- Consensus mechanisms- Cross-blockchain ecosystems
- Decentralized applications
- Decentralized financing & payments
- Decentralized storage & Inter Planetary File System (IPFS)
- Distributed storage in blockchain
- Underlying infrastructure for blockchain systems
- On-chain & off-chain applications
- Privacy & security of ledgers
- Performance & Scalability
- Secure contracts
- Side chains & channels
- Smart contracts
- Trusted Execution Environment
- Trust & reputation management
- Zero knowledge proof

Special session chairs

Dr. Amjad Gawanmeh, Khalifa University, Abu Dhabi, UAE
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Paper Submissions Guidelines

Check main conference webpage for submission instructions:
www.acosis.org/CFP.html

Submission link:

