

Call for Papers

6th Conference on Blockchain Research & Applications for Innovative Networks and Services

October 08-11, 2024, Berlin, Germany

Web3, Blockchain, and Distributed Ledger Technologies (DLT) have the potential to disrupt any domain involving coordination among autonomous resources. This includes finance and payments (e.g., fintech), but also networks (e.g., power grids or telecom networks), computing (e.g., brokering of edge resources), IoT (e.g., supply chain, V2X or industry 4.0) or service platforms (e.g., identity management).

BRAINS conference is dedicated to these advances that could make the world of networks and services more secure while enabling new distributed business models.

BRAINS 2024 is technically co-sponsored by IEEE and IEEE ComSoc, all accepted and presented papers will be submitted for publication in IEEE Xplore.

Areas of interest include, but are not limited to:

Fundamentals of Blockchain and DLT:

- Theoretical contributions to Blockchain, DLT, and decentralized storage
- Distributed consensus and fault tolerance solutions, including domain-specific consensus
- Protocols and algorithms
- Distributed ledger analytics
- Trade-offs between decentralization, scalability, performance, and security
- Layer 2 solutions for scalability and privacy
- Blockchain interoperability and cross-chain mechanisms
- Storage solutions and data availability

Fundamentals of Decentralized Apps, Smart contracts, and chain code:

- Languages and tooling for dApp development
- Security, privacy, and forensics
- Transaction monitoring and analysis
- Collaboration between on-chain and off-chain code
- Token Economy, incentives, and protocols
- Distributed trust
- Oracles
- Blockchain as a service
- Blockchain-defined networking
- Web3, IPFS

Application and service cases of DLT and Smart contracts:

- Identity management
- Finance, payments, and fraud detection and prevention
- Decentralized Finance (DeFi) and payments
- IoT and cyber-physical systems
- Smart grids and Industry 4.0, including dataspace
- Supply chain management
- V2X, connected and autonomous vehicles
- Networking, Edge, and Cloud technologies
- Blockchain for Beyond 5G and 6G technologies
- Blockchain and AI
- Service or resource marketplaces
- Public sector Blockchain solutions and infrastructures
- Blockchain for education, public administration, health
- Results from large collaborative projects on these topics
- Blockchain for Business Process Management
- Blockchain for Metaverse and Digital Twins
- Regulations and policies

Submission Guidelines

Submitted papers must represent original material that is not currently under review in any other conference or journal and has not been previously published. All submissions should be written in English following the Two-Column IEEE Conference Format, with a maximum of eight (8) pages (Full Papers), four (4) pages (Short Papers and work in progress), or two (2) pages (Poster Papers), including text, figures, and references. Papers should be submitted through EDAS.

Student Track

We encourage the submission of student papers (i.e., all authors of the paper must be MSc or PhD students) on the topics mentioned in the CFP. Student papers have to be clearly stated on the first page. The papers should follow the same guidelines as Short papers and be submitted on the dedicated EDAS track for student papers.

Best Paper Awards

- Best Full Paper Award
- Best Student Paper Award



Important Dates

- Paper submission due: **June 10, 2024**
- Notification of acceptance: July 12, 2024
- Camera-ready paper due: July 28, 2024
- Conference: October 8 - 11, 2024

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