

# CALL FOR PAPERS

## 4th Conference on Blockchain Research & Applications for Innovative Networks and Services

# BRAINS 2022

<https://brains.dnac.org/>

September 27 – 30, 2022

Paris, France



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 new advances that could make the world of networks and services more secure, while enabling disruptive new distributed business models.

BRAINS 2022 will address the challenges and issues raised in the design of future networks in all their dimensions, offering to its attendees a variety of state-of-the-art sessions, including technical presentations, keynotes, demonstrations and panel

### Topics of interest

#### Fundamentals of Blockchain and DLT:

- ◆ Theoretical contributions on Blockchain and DLT
- ◆ Distributed consensus and fault tolerance solutions, including domain-specific consensus (e.g., for networking)
- ◆ Tradeoffs between decentralization, scalability, performance and security
- ◆ Protocols and algorithms

#### Decentralized Apps, Smart contracts and chain code:

- ◆ Development languages and tooling
- ◆ Security, Privacy, Attacks, Forensics
- ◆ Transaction Monitoring and Analysis
- ◆ Token Economy
- ◆ Distributed Trust
- ◆ Collaboration between on-chain and off-chain code
- ◆ Oracles, DeFi, NFT dapps and protocols

#### Application and service cases of DLT and Smart-Contracts:

- ◆ Finance and payments
- ◆ IoT and cyber physical systems
- ◆ Smart grids and Industry 4.0
- ◆ Networking, Edge and Cloud Technologies
- ◆ 5G Technologies, Telecom Process and Operation
- ◆ Supply chain management
- ◆ V2X, connected and autonomous vehicles
- ◆ Services or Resources Marketplaces
- ◆ Blockchain as a service
- ◆ Blockchain-defined networking

### 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 with maximum of eight (8) or Four (4) printed pages (in Two-Column IEEE Conference Format), including text, figures and references. Papers should be submitted through EDAS at: <https://edas.info/N29333>

BRAINS 2022 is technically co-sponsored by IEEE, IEEE ComSoc

All accepted & presented papers will be submitted to IEEE Xplore. The three Best Paper finalists will be invited for a fast-track peer-reviewed publication in IEEE Transactions on Network and Service Management

#### Important Dates

- ◆ Paper Submission: **June 6, 2022**
- ◆ Paper Acceptance Notification: **June 20, 2022**
- ◆ Final Papers Due: **June 27, 2022**

#### Organizing Committee

##### General Co-Chairs

Marta Beltrán Pardo (ETSII, Univ. Rey Juan Carlos (Spain))  
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