

IEEE Blockchain-2023 Call for Papers

The 6th IEEE International Conference on Blockchain (Blockchain 2023)

December 15-18, 2023, Ocean Flower Island, Hainan, China

<http://ieeeybermatics.org/2023/blockchain/>

As a promising technique to achieve decentralized consensus, blockchain has been applied into various fields, e.g., digital currency, supply chain, asset management, e-health, e-government, network management, etc. Its secure design for supporting a distributed computing system with high fault tolerance is attracting wide attention all over the world. Blockchain has great potential to create new foundations for our socio-economic systems by efficiently establishing trust among people and machines, reducing cost, and increasing utilization of resources. On one hand, blockchain will play an important role for secure decentralization in such emerging fields as Internet of Things, cyber physical systems, edge computing, social networking, crowdsourcing and next generation wireless communications, and even more other fields. On the other hand, its advance should be further evolved in terms of scalability, security, privacy, efficiency, flexibility, availability, and dependability.

Following the great success of IEEE Blockchain 2022, held in Espoo, Finland, IEEE Blockchain 2021, held in Melbourne, Australia, IEEE Blockchain 2020, held in Rhodes Island, Greece, IEEE Blockchain 2019, held in Atlanta, USA, IEEE Blockchain 2018, held in Halifax, Canada, the 2023 IEEE International Conference on Blockchain (Blockchain-2023) will provide a high-profile, leading-edge forum for researchers, engineers, and practitioners to present latest advances and innovations in key theories, infrastructure, schemes, and significant applications for the blockchain, as well as to identify emerging research topics and define the future.

*** Important Dates**

Workshop proposal Due: July 15, 2023

Paper Submission Deadline: September 01, 2023

Author Notification: October 15, 2023

Camera-ready and Registration: October 31, 2023

Registration Deadline: Coming soon

Conference Dates: December 15-18, 2023

*** Topics**

The emergence and popularity of blockchain techniques us significantly changing the way of cyber systems' operation and management. In the meantime, the application of blockchain will exhibit a variety of complicated problems and new requirements, which brings new open issues and challenges for research communities.

The goal of IEEE Blockchain-2023 is to promote community-wide discussion for identifying advanced applications, technologies and theories of blockchain. We seek submissions of papers that invent novel techniques, investigate new applications, introduce advanced methodologies, propose promising research directions and discuss approaches for unsolved issues. Topics of interest include, but are not limited to:

- Theories of blockchain and distributed ledger technology
- New blockchain architecture
- Distributed consensus and fault tolerance mechanisms
- Security, privacy and trust of blockchain and distributed ledger

- Cross-chain and off-chain technology
- Attacks and vulnerabilities of blockchain
- Blockchain scalability and performance optimization
- Simulation and performance evaluation techniques
- Smart contract and chain code
- Applications and services based on blockchain
- Protocols and algorithms based on blockchain
- Blockchain in the Internet of things (IoT)
- Blockchain in cyber physical systems
- Blockchain in social networking
- Blockchain in supply chain management
- Blockchain in agriculture
- Blockchain in connected and autonomous vehicles
- Blockchain in crowdsourcing and crowdsensing
- Blockchain in edge and cloud computing
- Blockchain in next generation communications and networks
- Blockchain and cryptocurrency
- Blockchain and artificial intelligence
- Blockchain and game theory
- Blockchain and industry 4.0
- Redactable blockchain

*** Keynote Speaker**

Dusit Niyato, Nanyang Technological University, Singapore

*** Journal Special Issues**

IEEE Blockchain-2023 will invite additional submissions (after significant extension) to the special issue in the following prestigious journals:

- IEEE Network (IF: 10.294)
- Information Sciences (Elsevier) (IF: 8.233)
- Information Fusion (Elsevier) (IF: 17.564)
- Digital Communications and Networks (IF: 6.348)
- ACM Distributed Ledger Technologies: Research and Practice (ACM DLT)
- (More will be added)

*** Author Instructions**

All papers need to be submitted electronically through the conference website (**coming soon**) with PDF format. Submitted papers must not substantially overlap with papers that have been published or that are simultaneously submitted to a journal or a conference with proceedings. Papers must be clearly presented in English, must not exceed 8 pages in IEEE Computer Society proceedings format (or up to 10 pages with a page over length charge), including tables, figures, references and appendices. Papers will be selected based on their originality, significance, relevance, and clarity of presentation assessed by at least three reviewers. All submitted papers will be judged through double-blind reviews, where the identities of the authors are withheld from the reviewers. As an author, you are required to preserve the anonymity of your submission, while at the same time allowing the reader to fully grasp the context of related past work, including your own. Papers that do not conform to our double-blind submission policies will be rejected without review.

Submission of a paper should be regarded as a commitment that, should the paper be accepted, at least one of the authors will register and attend the conference to present the work. IEEE Blockchain 2023 reserves the right to exclude a paper from distribution after the conference (e.g., removal from the digital library and indexing services), if the paper is not presented at the conference. All accepted papers will be published in IEEE CPS proceedings (EI Indexed) and collected by IEEE Xplore Digital Library. Two outstanding papers will be selected to receive the Best Paper Awards.

*** Instruction for Double-blind Submission**

- Remove the names and affiliations of authors from the title page.
- Remove acknowledgments.
- Remove project titles or names that could be used to trace back to the authors via web search.
- Carefully name your files to anonymize author information.
- Carefully refer to related work, particularly your own. Do not omit references to provide anonymity, as this leaves the reviewer incapable of grasping the context. Instead, reference your past work in the third person, just as you would any other piece of related work by another author. For example, instead of "In prior work [1], we presented a scheme that ...," sentences in the spirit of "In prior work, Clark et al. [1] presented a scheme that ..." should be used. With this method, the full citation of the referred paper can still be given, such as "[1] A. Clark ..., "Analysis of...", and it is not acceptable to say "[1] Reference deleted for double-blind review."
- The submitted manuscript or its title/abstract should not be posted on a public website, such as arxiv.org, or transmitted via public mailing lists.
- The submitted manuscript (PDF file) should be text-searchable. Any submission that does not meet this requirement may be returned without review.
- Many of the editing tools automatically add metadata to the generated PDF file containing information that may violate the double-blind policy. Please remove any possible metadata that can link your manuscript to you. This includes removing names, affiliations, license numbers, etc. from the Metadata as well as from the paper. Failing to meet this requirement may also lead to rejection without review.

*** Organizing Committees**

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