

Call For Paper

-----Special Section on Security and Privacy in Blockchain-----

The IEICE Transactions on Information and Systems announces that it will publish a special section entitled "Special Section on Security and Privacy in Blockchain " in Sept. 2024.

Blockchain is emerging as a disruptive and transformative technology, with enormous potential, benefits and impact for organizations and government services. The pervasiveness of blockchain technology in a variety of fields is changing our lives and blockchain has been considered as a technology breakthrough for cryptography and cybersecurity. Although blockchain has received growing interest in both academia and industry in the recent years, the security and privacy of blockchains continue to be at the center of the debate when deploying blockchain in different applications. Therefore, the goal of this special section is to provide a cutting-edge venue for the scientific community to explore the latest ideas, models, and innovative applications in the domain of security and privacy. This special section, which is expected to be published on 1 Sept. 2024 will provide a venue for the world-class researchers to gather and share their research achievements on Blockchain theories, models, technologies, and systems in the domain of security and privacy. This special section in IEICE Transaction will receive independent submissions as well as the extended papers from the following two upcoming international conferences, focusing on the theme of this special section: (1) The 5th International Workshop on Blockchain and Security (BlockchainSec2022), Zhangjiajie, China, November 15-18, 2022 (<http://ubisecurity.org/Blockchain/2022/>), (2) The Second International Conference on Ubiquitous Security (UbiSec 2022), Zhangjiajie, China, November 15 - 18, 2022 (<http://ubisecurity.org/2022/>).

1. Scope

This special section solicits topics as follows, but not limited to:

- Novel Security Models and Architectures for Blockchain
- Blockchain Attacks on Existing Systems
- Blockchain Authentication and authorization
- Security of Consensus Protocols
- Generative adversarial networks (GAN) in Blockchain security
- Trusted Execution of Smart Contracts
- Fault Tolerance and identity Management
- Blockchain-based solutions for IoT security
- GDPR strategy, compliance and optimization using Blockchain
- Blockchain in digital forensic
- Intelligent systems for fraud detection and forensics in blockchain
- Innovative architectures and protocols for safe blockchain application
- Vulnerability analysis, threat modeling, and risk assessment in Blockchain
- Privacy preservation in Blockchain
- Evaluating user privacy in Blockchains
- Blockchain Privacy and trust management
- Crypto-privacy techniques
- Privacy and trust of distributed ledger technology
- Privacy-enhancing technologies, anonymity, and censorship
- Privacy metrics and policies
- Smart contract privacy protection
- On-chain privacy

2. Submission Instructions

- A manuscript should be prepared according to the guideline given in "The Information for Authors" (https://www.ieice.org/eng/shiori/mokuji_iss.html). We encourage the authors to use the IEICE Style File (<https://www.ieice.org/ftp/index-e.html>). The preferred length of the manuscript is 8 pages for a PAPER and 2 pages for a LETTER with the format determined by the IEICE Style File.
- Submit the manuscript through the IEICE Web site (https://review.ieice.org/regist/regist_baseinfo_e.aspx). Choose "[Special-BC] Security and Privacy in Blockchain" in the menu of "Journal/Section" in the submission page. Do not choose "[Regular-ED] Information and Systems" or other special sections.

- Authors must agree to the "Copyright Transfer, Article Processing Charge Agreement, Notices from the IEICE, and Privacy Policy" via electronic submission.
- Submission deadline of the manuscript is Sept. 1, 2023 (Strict).

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3. Important dates:

(1)	Submission Deadline:	1 Sept., 2023 (Strict)
(2)	The first Acceptance/rejection notification to authors:	7 Dec., 2023
(3)	Submission of revised manuscripts:	9 Feb., 2024
(4)	Final Acceptance/rejection notification to authors	10 Mar., 2024
(5)	Payment deadline	15 Jun., 2024
(6)	Proofread of manuscripts:	15 Jul, 2024
(7)	Publication:	1 Sept., 2024

4. Notification

Please note that if accepted, all authors, including authors of invited papers, will be requested to pay for the article processing charges covering partial cost of publication. Authors should notice that the manuscript is held for publication until the payment is completed. For article processing charges, please visit https://www.ieice.org/eng/shiori/appb_iss.pdf

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6. Others

- ✧ Upon accepted for publication, all authors, including authors of invited papers, should pay the article processing charges covering partial cost of publication around May 2024. If payment is not completed by 15 June 2024 your manuscript will be handled as rejection.
- ✧ The standard period of 60 days between the notification (of conditional accept) and the second submission can be shortened according as the review schedule.
- ✧ If there are non-members among the authors, we recommend that the authors take this opportunity to join the IEICE. For detailed information on the IEICE Membership Application, please visit the web-page, https://www.ieice.org/eng_r/join/individual_member.html. If all authors are non-members, the article processing charge for non-members will be applied, except for invited papers.
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