Call For Paper IEICE Transactions on Information and Systems - Special Section on Blockchain Systems and Applications —

Blockchain is a consensus-based distributed system, combined with technologies such as smart contract, cryptography, hashing, Merkle tree, etc. Together, they build a new generation of transactional applications that establish trust, accountability, provenance, and transparency at their core, while streamlining business processes and legal constraints in a cross-organizational collaboration. There are still many issues that need to be addressed specifically in terms of scalability, security, privacy, efficiency, availability and dependability which bring complicated challenges and many open issues for the research community. This special section, which is expected to be published on 2022.2 will provide a venue for the world-class researchers to gather and share their research achievements, emerging ideas and trends in the highly challenging research fields. This special section in IEICE Transaction will receive independent submissions as well as the extended papers from the following BlockchainSys 2020 workshop and three international conferences, focusing on the theme of this special section: (1) BlockchainSys 2020 in December 2020 in Guangzhou, China (http://ieee-trustcom.org/TrustCom2020/); (3) SpaCCS 2020 in October 2020 in Nanjing, China (http://www.spaccs2020.com/); and (4) WISA 2020 in September 2020, Guangzhou, China (http://trust.gzhu.edu.cn/wisa2020/).

Topics

Part 1: Blockchain Theories and Models

Security Model and Architecture, Security & Attack Surface, Security, Privacy and Trust Management, Distributed Consensus Protocols, Identity Management and Assent Tracking, Fault Tolerance Mechanism, Scalability and Optimization, Interoperability and Standardization, Benchmarking and Performance Analysis Strategies, Simulation and Performance Evaluation Part 2: Blockchain Technologies

Distributed Ledger Technologies, Token Economy and Cryptocurrency, Decentralized Applications and Infrastructures, Smart Contracts and Chaincode, Secure Smart Contracts and Chaincode, Trusted Execution of Smart Contracts, AI and Smart Contracts, Game Theory, Anonymity and Data Privacy, Zero Knowledge Proofs, Edge/Fog Computing

Part 3: Blockchain Systems

Blockchain and IoT, Blockchain and Smart Home/City, Blockchain and Energy Systems, Blockchain and Healthcare, Blockchain and Industry 4.0, Blockchain and Supply Chain Management, Blockchain and Crowdsourcing, Blockchain and Cloud Computing, Blockchain and Mobile Systems, Blockchain and Social Networking, Blockchain and Governance/Policy/Regulation, Blockchain and Cyber Physical Systems, Blockchain and Agriculture, Blockchain and Autonomous Vehicles, Blockchain and M2M Communication, Blockchain and 5G Networks

2. Author Instructions

The length of the regular paper is limited to 8 pages, and 2 pages for letter. Please refer to the following link for the detailed information: https://www.icice.org/eng/shiori/mokuji iss.html

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Please follow the steps for the submission:

- (1). Submit through webpage "https://review.ieice.org/regist/regist_baseinfo_e.aspx". Please select "[Special-BC] Blockchain Systems and Applications" under "Journal/Section". Do not select [Regular-ED].
- (2). "Copyright Transfer and Page Charge Agreement" is required during the submission.

4. Submission Deadline: 2021.5.20 (Strict) 2021.3.10

5. Payment Notification: 2021.10

6. Payment Deadline: 2021.11.15

7. Notification

Acceptance or reject of the submitted papers or letters will be notified to the authors before middle of October 2021. Please note that if accepted, all authors, including authors of invited papers, will be requested to pay for the page charges covering partial cost of publication. Authors should notice that the manuscript is held for publication until the payment is completed. For page charges, please visit https://www.ieice.org/eng/shiori/page2 iss.html#5-1-b.

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