Blockchain Consensus Algorithms

Guest Editor:

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Deadline for manuscript submissions:
closed (15 July 2023)

Message from the Guest Editor

Dear Colleagues,

We are living in a highly dynamic world where virtually everything is absorbed into the digital world full of promises and concerns. The rapidly growing blockchain technology will surely be one of the key leading mechanisms that we can rely on for the transparency and secrecy of our digital information. The consensus algorithm for a blockchain system is the essential engine that must ensure rigorous service, no matter what type of security threats that may be encountered. One yet-to-be-concretized issue that we may soon experience is the quantum-computing-era security threats that may severely endanger the conventional security mechanisms that many security schemes, including the current blockchain systems, heavily rely on. It is time-critical to maintain and update the underlying security mechanisms to keep blockchain systems secure and efficient in the post-quantum era.

We invite you to submit high-quality papers to this Special Issue on "Blockchain Consensus Algorithms", with subjects covering the whole range from theory to applications.

Special Issue

Editor-in-Chief

Prof. Dr. Frank Werner
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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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