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Advances on Blockchains and Applications

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Advances on Blockchains and Applications

Preface

As the guest editors of the Turkish Journal of Electrical Engineering and Computer Sciences, we worked hard to publish a special issue on Advances on Blockchains and Applications, contemplating many recent developments and various novel applications being developed on blockchain technology. Blockchain is regarded as the game-changer technological advancement of the past decade, and many experts think that it will continue leading to more and more decentralized solutions.

Rather than a particular technology, blockchain can be seen as a vision for creating decentralized solutions where the trust is distributed. It has applications on the Internet of Things (IoT), online education, internet voting, research networks, event management, supply chains, and more. In this special issue, many different applications of the blockchain technology are covered; there are papers on performance analysis on lightweight devices, remote electronic examination systems, electronic voting in Estonia, formation of a decentralized research network, and event management for IoT. The readers can also find a comprehensive survey on privacy, filling an important gap in the literature, an efficient blockchain simulator, a provably-secure redactable (mutable, modifiable) blockchain solution, and an optimization algorithm for proof-of-work blockchains.

This special issue managed to cover a wide range of interesting aspects of the Advances on Blockchains and Applications, with great support from the journal's editor-in-chief, as well as the associate editors-in-chief and the hardworking reviewers who provided important feedback and the authors.

We would like to express our special thanks to the authors who submitted their invaluable pieces of works to this special issue, to the editors who selected the best submissions for this special issue, and to the journal administrative staff.

We would also like to thank all the readers in advance who would integrate the papers in this special issue into their works in the field of industry or academia.

Kind regards,

Assoc. Prof. Alptekin **KÜPÇÜ**, Koç University, Turkey

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