

Special Issue

Advances in Multidisciplinary Exploration for Symmetric Key Cryptography and Blockchain Technology

Message from the Guest Editors

Cryptographic and blockchain techniques have been recognized as of top importance for security, privacy, and a large number of applications within cyberspace. Widespread employment of cryptographic and blockchain techniques has raised challenges.... In particular, we look toward the following: (i) employment of information theory and coding results for the development of advanced symmetric key cryptographic primitives; (ii) advanced mathematical methods and concepts for developing advanced blockchain consensus protocols that are not based on heavy energy consumption. We welcome submissions of article and review papers on the following topics: symmetric key encryption, symmetric key authentication, security evaluation of symmetric key cryptographic primitives, information theory and coding for design and analysis of cryptographic techniques, blockchain techniques, blockchain consensus protocols, blockchain for integrity and authenticity control, blockchain and artificial intelligence and vice versa, and advanced blockchain application paradigms. Articles on other relevant topics, including methodological and cross-disciplinary approaches, are also welcome.

Guest Editors

Prof. Dr. Miodrag J. Mihaljevic

Mathematical Institute, The Serbian Academy of Sciences and Arts,
11000 Belgrade, Serbia

Prof. Dr. Chin-Ling Chen

Department of Computer Science and Information Engineering,
Chaoyang University of Technology, Taichung 413310, Taiwan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

Prof. Dr. Sergei Odintsov
ICREA, 08010 Barcelona and Institute of Space Sciences (IEEC-CSIC),
C. Can Magrans s/n, 08193 Barcelona, Spain

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