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Symmetry and Asymmetry Phenomena in Incomplete Big Data Analysis

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Message from the Guest Editors

Dear Colleague,

In this era of information explosion, people are inundated with big data. The global data sum is predicted to grow from 33 ZB in 2018 to 175 ZB by 2025. Meanwhile, data are commonly incomplete in many big-data-related applications such as environmental monitoring systems, e-commerce systems, and wireless sensor networks, as the related information or relationships are unlikely to be fully observed or collected in practice. Hence, identifying how to efficiently and effectively filter valuable knowledge and patterns out of incomplete big data has become a significant challenge.

Generally, data from real applications have two kinds of distributions, i.e., symmetric and asymmetric distributions. Therefore, it is extremely crucial to consider symmetry and asymmetry phenomena in incomplete big data analysis.

This Special Issue aims at exploring the latest up-to-date theory, methods, and applications regarding incomplete big data analysis with symmetry and asymmetry phenomena. In particular, new interdisciplinary approaches, open-source tools, and open-source datasets are especially welcome.

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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.

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