Special Issue

Data-Driven Intelligent Discovering and Symmetry: Theory, Method, and Security

Message from the Guest Editors

Symmetry plays a crucial role in data-driven intelligent discovery, and has led to significant results in big data and AI. Symmetry is the bridge that connects data and artificial intelligence, reducing the complexity of data, improving the efficiency of learning, discovering physical laws, and enhancing the ability of models to generalize. Data-driven intelligent discovery and symmetry is a multi-dimensional, interdisciplinary field that not only requires theoretical support but also methodological and security considerations in practical applications. With the development of technology, the applicative scope of the field will continue to expand. Although significant progress has been made, several challenges persist. These include data-driven intelligent discovery and symmetry theory, and issues related to methods and security. In order to address these problems, this Special Issue welcomes the submission of articles that address the following topics: the representation of data; symmetry problems in intelligent discovery; the theory and application of intelligent discovery; etc.

Guest Editors

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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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