

Special Issue

Symmetry in Computational Intelligence and Data Science

Message from the Guest Editors

Current artificial intelligence has made significant progress in technology, methodologies, and application systems. In particular, the rise of large language models is leading a technological revolution through their powerful language understanding and generation capabilities, while also sparking academic discussions about achieving Artificial General Intelligence (AGI). However, progress in foundational theories remains slow. There remains a lack of mathematical foundations for big data and fundamental theories for intelligent algorithms. Algorithms and data are two crucial dual factors in artificial intelligence, and in current research, discovering the impact of these symmetries on artificial intelligence is even more important. This Special Issue, therefore, focuses on theoretical research related to AI foundations, including, but not limited to, the following topics: reasoning language model theory, Explainable AI (XAI), Natural Language Processing (NLP), Machine Learning, the structural properties of big data, data processing science, and various uncertainty theories and applications, such as fuzzy analysis, rough set theory, and three-way decision making.

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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

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