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Applications Based on AI in Mathematics and Asymmetry/Symmetry

Guest Editor:

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Deadline for manuscript submissions:
31 October 2024

Message from the Guest Editor

This Special Issue invites you to contribute your original research work and review articles on "Applications Based on AI in Mathematics and Asymmetry/Symmetry", including the recent advances in the theoretical research of AI algorithms and computer-aided research in geometry and their applications, with emphasis on symmetry and asymmetry aspects, as well as new research methods such as symbolic and numerical computation. We hope that this Special Issue will provide the most up-to-date information on important findings and innovative tools in the research of related fields.

Scope: Potential topics including, but not limited to, the following subheadings are deemed suitable for publication:

- The recent advance of formal methods in automated reasoning of mathematics theorems;
- Innovative AI-supported computer algebraic algorithms for solving problems in graph theory, combinatorial geometry, and discrete geometry;
- Symbolic/numerical computations in computer-aided research for finding new theorems and new conjectures;
- etc.

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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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