Special Issue

Symmetry-Driven Artificial Intelligence for Logistics and Operations

Message from the Guest Editors

Symmetry is becoming an increasingly important concept in artificial intelligence, with exciting potential for real-world applications—particularly within the domain of logistics. This Special Issue welcomes original research at the crossroads of mathematical symmetry, AI methods, and logistics optimization, with a special emphasis on industrial and healthcare contexts. We are particularly interested in work that explores how symmetry—such as repeating patterns in demand over time, similarities in distribution networks, or interchangeable resource assignments—can be used to improve decision making and planning. The goal is to highlight how recognizing these patterns can lead to smarter, more adaptable systems for managing supply chains, allocating resources, and streamlining operations. By tapping into these underlying structures, researchers and practitioners can develop models that help reduce waste, cut costs, and improve the quality and reliability of services, especially in sectors where efficiency, sustainability, and resilience are critical.

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About the Journal

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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