

## Special Issue

# Symmetry and Asymmetry in AI-Driven Supply Chain Transformation: Trends, Innovations, and Future Directions

### Message from the Guest Editors

This Special Issue examines how artificial intelligence (AI) is transforming contemporary supply chain management, with particular attention to symmetry and asymmetry in system design, decision-making, and operational dynamics. We welcome submissions that investigate the potential of AI to balance symmetric structures for efficiency while responding to asymmetric challenges, including disruptions, inequalities, and the need for adaptations. Topics covered include AI-based predictive analytics, autonomous logistics, ethical AI governance, digital twins, sustainable supply chains, and human-AI collaboration.

### Guest Editors

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### Deadline for manuscript submissions

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## Symmetry

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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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### Editor-in-Chief

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