

Special Issue

Advances in Machine Learning with Symmetry/Asymmetry in Transportation

Message from the Guest Editors

This Special Issue invites all original and reviewed papers covering the challenging aspects of traffic safety algorithms, including, but not limited to, the following topics:

- Symmetrical/asymmetrical design of traffic control systems;
- Dynamic modeling and parameter identification of traffic flow;
- Real-time traffic accident prediction and risk assessment;
- Advanced machine learning algorithms for traffic safety optimization;
- Environmental perception and decision-making for traffic management;
- High-performance trajectory tracking and control for accident prevention;
- Functional safety and reliability of intelligent traffic systems;
- Symmetry/Asymmetry analysis in traffic safety algorithms.

Guest Editors

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Deadline for manuscript submissions

30 September 2025



Symmetry

an Open Access Journal
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Impact Factor 2.2
CiteScore 5.3



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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.

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