



symmetry

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Symmetry in Mechanical and Transport Engineering, Transport Logistics, and Mathematical Design of Efficient Transport Facilities

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Deadline for manuscript
submissions:

closed (29 July 2022)

Message from the Guest Editors

Dear Colleagues,

Symmetry is an important factor in various engineering research fields, and it is fundamental to function and design. In particular, a complex system of manufactured parts, symmetric and asymmetric, is characteristic of the transport industry (for example, in aviation, road, and rail vehicles) and constitutes a significant issue.

Currently, efforts are being made to automate transport and improve its efficiency while reducing cost. As a result, novel engineering technologies, computer-aided manufacture, and sophisticated modeling methods are being implemented.

There is now a requirement for mathematical analysis, not just to obtain operational efficiency but also for intelligent design. Transport (both operations and facilities) is subject to the same techniques used for VLSI and circuit board optimization.

It is our honor to invite researchers to submit original experimental and theoretical articles addressing the abovementioned issues in the mechanical and transport engineering fields and the related fields of mathematical analysis, robotics, and computational technology.



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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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