

Special Issue

Three-Dimensional Dynamical Systems and Symmetry

Message from the Guest Editors

Dynamical systems are used to model some processes from various fields, and they are widely investigated from many points of view. The most results are probably obtained in the case of planar dynamical systems, but three-dimensional dynamical systems are also a particular case. On one hand, the first step to generalize these results may be to consider three-dimensional dynamical systems and then higher dimensions. On the other hand, the increase in dimension leads to new behaviors. Finally, the parity of the dimension matters in some cases. The aim of this special issue is to discuss the interplay of symmetries and stability in the analysis and control of three-dimensional dynamical systems and networks. Our goal is to bring out new three-dimensional mathematical models, as well as to emphasize new properties of different types of three-dimensional dynamical systems.

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Deadline for manuscript submissions

closed (31 May 2025)



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CiteScore 5.4



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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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