

Special Issue

Qualitative Theory and Symmetries of Ordinary Differential Equations

Message from the Guest Editor

Qualitative analysis has proved to be an important and useful tool for investigating the properties of solutions of differential equations, because it can analyze differential equations without solving them analytically and numerically. Since the qualitative analysis of differential equations is related to both pure and applied mathematics, its applications to various fields such as science, engineering, and ecology have been extensively developed. The objective of this Special Issue is to report on the latest achievements in the qualitative theory of ordinary differential equations and their relation to the symmetries of differential equations. It will reflect both the state-of-the-art theoretical research and important recent advances in applications. It is important to develop new theories and methods, as well as to modify and refine the well-known techniques for the analysis of new classes of problems using the symmetries of differential equations. We are mainly interested in ordinary differential equations, autonomous or non-autonomous, smooth or non-smooth. We hope to gather together established and young scientists actively working on the subject.

Guest Editor

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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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