Qualitative Theory for Ordinary Differential Equations

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Message from the Guest Editor

Qualitative analysis has proved to be an important and useful tool to investigate the properties of solutions of differential equations, because it is able to analyze differential equations without solving 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, ecology have been extensively developed, and it has been and will continue to be one of the main themes in mathematics theoretically and practically.

The objective of this special issue is to report on the latest achievements in the qualitative theory of ordinary differential equations. It will reflect both the state-of-the-art theoretical research and important recent advances in applications.

Topics of interest include, but are not limited to: Singularities and local behavior of solutions, Stability properties and asymptotic behavior of solutions, Existence, bifurcations and stability of periodic solutions, Existence and properties of almost periodic solutions, Nonlinear ordinary differential operators, Symmetries and integrability of ordinary differential equations.

Special Issue

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Message from the Editor-in-Chief

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