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Special Issue Reprint

Analytical Methods and Qualitative Analysis for Differential Equations

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The Special Issue Reprint aims to bring the newest results in the study of analytical methods and qualitative analysis for ordinary and partial differential equations. Ordinary differential equations (ODEs) and partial differential equations (PDEs) are important tools used to describe dynamic systems and physical phenomena. They are widely used in many fields such as engineering, physics, chemistry, biology, control theory, astronomy, quantum mechanics, general relativity, elasticity, electromagnetism, finance, economics, and so on. Analytical methods provide tools for accurately solving ODEs and PDEs, while qualitative analysis methods help us understand the global behavior and properties of solutions, both of which are indispensable in mathematical analysis. The Special Issue Reprint brings together the newest research progress and trends in the study of analytical methods and qualitative analysis for differential equations of one variable and several variables, thereby advancing the development of both branches and, at the same time, inspiring parallels between them. Any aspects related to the study of analytical methods and qualitative analysis for ordinary and partial differential equations are valuable to this Special Issue Reprint.

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