



Direct and Inverse Spectral Problems for Ordinary Differential and Functional-Differential Operators

Guest Editor:

Prof. Dr. Natalia Bondarenko

1. Department of Applied Mathematics and Physics, Samara National Research University, Moskovskoye Shosse 34, 443086 Samara, Russia
2. Senior Researcher, Department of Mechanics and Mathematics, Saratov State University, Astrakhanskaya 83, 410012 Saratov, Russia
3. S.M. Nikolskii Mathematical Institute, Peoples' Friendship University of Russia (RUDN University), Miklukho-Maklaya Street 6, 117198 Moscow, Russia

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Message from the Guest Editor

This Special Issue is devoted to the spectral theory of ordinary differential and functional–differential operators. Both direct and inverse spectral problems are included. Such problems play a fundamental role in mathematics and have applications in various fields of science and engineering.

Direct spectral problems consist in studying the properties of spectral characteristics such as asymptotical formulas for eigenvalues and eigenfunctions, trace formulas, completeness and basicity of root functions, eigen convergence theorems, etc.

Inverse spectral problems consist in the recovery of operators from their spectral characteristics. In recent years, the theory of inverse problems has been actively developing not only for differential operators, but also for integro-differential operators, functional–differential operators with delays, with frozen arguments, and other related classes of operators.

The topics of the potential submissions are not limited to the issues mentioned above. Papers on applications of spectral problems (e.g., to linear and nonlinear partial differential equations) are also encouraged.





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Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

Message from the Editor-in-Chief

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Mathematics Editorial Office
MDPI, Grosspeteranlage 5
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