

# Special Issue

## Mathematical Methods in Nonlinear Waves and Dynamical Systems

### Message from the Guest Editor

This Special Issue, "Mathematical Methods in Nonlinear Waves and Dynamical Systems" is open for submissions and welcomes research and review papers on the development of mathematical methods in the study of nonlinear waves and the broad interdisciplinary area of dynamical systems, including coherent structures, chaos, and nonlinear dynamics.

Recent progress in the natural sciences, such as the study of non-Hermitian physics, nonlocal differential equations, differential equations on metric graphs, dynamics of complex networks, etc., require new approaches and novel applications of established mathematical tools. This Special Issue aims at hosting a representative sample of works on these advances.

#### Keywords

- Nonlinear waves
- Solitary waves
- Coherent structures
- Pattern formation
- Oscillators
- Chaos
- Asymptotic methods
- Variational formulations
- Stability theory

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### Guest Editor

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### Deadline for manuscript submissions

closed (29 February 2020)



## Mathematics

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### Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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### Editor-in-Chief

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