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# **Mathematical Methods in Nonlinear Waves and Dynamical Systems**

Guest Editor:

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Deadline for manuscript submissions:

closed (29 February 2020)

# 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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## Message from the Editor-in-Chief

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