

Special Issue

New Advances in Nonlinear Waves, Solitons and Chaos

Message from the Guest Editor

We invite you to submit your latest research work in the field of nonlinear wave investigation to this Special Issue, titled “New Advances in Nonlinear Waves, Solitons and Chaos”. Submissions may present but are not limited to, investigations into the appearance and propagation of solitary waves in nonlinear media described by partial differential equations or fractional functional differential equations. Featured equations can be integrable, almost integrable, or essentially non-integrable. Explicit or asymptotic solutions can be classical (e.g., soliton, smoothed shock wave, etc.) or generalized (e.g., shock wave, delta-shock wave, peakon, cuspon, etc.). The interaction of traveling waves can produce waves again or can induce chaotic solutions. Methodologies and results of numerical simulations are also welcome for submission. Dr. Georgii A. Omel'yanov

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2025)



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About the Journal

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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