

Special Issue

Dispersive Equations of Higher Orders

Message from the Guest Editor

This Special Issue, “Dispersive Equations of High Order”, will be open for the publication of high-quality mathematical papers in the area of linear and quasilinear evolution dispersive equations. The focus will be on the initial and initial-boundary value problems and for them on the topics of local and global well-posedness, qualitative properties of solutions such as regularity and large time decay, the stability of solitons and other special solutions, and control problems. The class of considered equations will mainly consist of high-order dispersive equations such as Korteweg–de Vries, Kawahara, Zakharov–Kuznetsov, Kadomtsev–Petviashvili, and nonlinear Schrödinger equations, but will not be restricted to these. Dispersive equations play an important role in modern mathematical physics. They describe wave processes in liquids and plasma, and are used in optics and electrodynamics. However, in comparison with classical equation types such as elliptic, parabolic, and hyperbolic, there is a lack of issues devoted only to dispersive equations.

Guest Editor

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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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Prof. Dr. Francisco Chiclana

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