

Special Issue

Nonlinear Wave Hydrodynamics

Message from the Guest Editor

The rigorous framework of nonlinear wave hydrodynamics has its origins in the 18th century. Since then, significant theoretical, numerical, and experimental progress has been made that set the foundations for several applications in ocean engineering and physical oceanography. Recently, the latter also motivated groundbreaking studies investigating rogue and dispersive shock waves in other nonlinear physical media, for instance in optics. This Special Issue aims to discuss recent advances in the interdisciplinary field of nonlinear wave hydrodynamics including solitons, surface gravity waves, internal waves and wave turbulence in applied mathematics, physics and engineering. The collected papers are also directed to discuss modern developments and trends in the accurate modelling and prediction of hydrodynamic wave processes.

Guest Editor

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