Special Issue

Nonlinear Hydrophysics and Forecasting of Natural Disasters

Message from the Guest Editor

This Special Issue focuses on the physics of nonlinear processes in the hydro and geosphere with applications to dangerous (catastrophic) phenomena, including the following topics: 1. The development of the theory of nonlinear wave processes in the development of geospheric catastrophes with its subsequent binding to the experimental data obtained. 2. Studying the statistics of waves on the sea surface. Analysis of abnormally high emissions. Development of models of the occurrence of killer waves in deep and shallow water conditions with their subsequent verification on the experimental data obtained. 3. Study of the nature of infrasound disturbances created by typhoons during their movement from the moment of occurrence to complete destruction. 4. The development of technology for monitoring catastrophic storms in order to minimize their impact on the environment. 5. The development of a methodology for estimating the main parameters of a tsunami by crustal deformation disturbances with their remote monitoring. 6. The study of microseisms of the "voice of the sea" with the development of the technique of bearing the zones of their formation.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (*JMSE*, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

Editor-in-Chief

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