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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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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