Special Issue

Modelling and Observation of Water Waves

Message from the Guest Editors

Starting from the mid 19th century, fundamental wave theories for deep and shallow waters were formulated providing a mathematical framework for applications in physics and engineering. Despite the long history of wave modelling, physical modelling still provides much needed insight into the understanding of wave phenomena. Future wave model developments, on the other hand, depend on reliable observational data. This Special Issue of Fluids collects reviews and original research on recent developments in the modelling (numerical and physical) and observation of water waves phenomena. Specific topics may include wave breaking, nonlinear wave propagation, spectral wave modeling, wave turbulence, rogue waves, solitary waves, wave–current interaction, wave–structure interaction, wave impact force on structures, and wave energy conversion.

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