Journal of
Marine Science and Engineering

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Large Eddy Simulation and Turbulence Modeling

Guest Editor:

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Message from the Guest Editor

Computational power has been improved over last decades; therefore, complex flow modeling phenomena using computational fluid dynamics (CFD) has become more feasible. Furthermore, the improvement of computational power is expected to continue and will serve to progress in the CFD modeling capabilities.

The role of turbulence is essential to the understanding, prediction and improvement of complex flows. In fact, turbulence is vital to the proper operation of many industrial applications. LES is typically computationally less expensive than Direct Numerical Simulations (DNS) and, of course, computationally more expensive than Reynolds Averaged Navier-Stokes (RANS) models. However, thanks to the current advances in computational power, large grids and therefore LES for complex engineering flows have become feasible and very useful.

The purpose of the current Special Issue is to publish the most exciting research with respect to the above subjects and to spread the articles freely for research, teaching, and reference purposes.

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Message from the Editor-in-Chief

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