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Development and Application of Computational Fluid Dynamics in Offshore Renewable Energy

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Deadline for manuscript submissions:
closed (30 October 2020)

Message from the Guest Editors

Dear Colleagues,

The main aim of this Special Issue is to collect outstanding research articles highlighting original development and/or applications of Computational Fluid Dynamics (CFD) in the area of offshore renewable energy (ORE), covering a wide range of problems. Topics of interest include but are not limited to the development and/or application of CFD in:

- ORE resource assessment, wind farm, and tidal array layout design;
- Turbine/wake interaction in wind farms and tidal arrays;
- Wave- and turbulence-induced loads in tidal energy converters;
- Floating and fixed-bottom wind turbine analysis and design;
- Active and passive rotor flow control;
- Wave energy;
- Fluid/structure interaction;
- Hybrid methods combining CFD and machine learning;
- Combined use of CFD and experiments in any of the above topics.

Dr. M. Sergio Campobasso
Dr. Ling Qian
Guest Editors

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Editor-in-Chief

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