



Numerical Assessments of Tidal Stream and Wave Energy in Coastal Shelf Seas

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Message from the Guest Editors

The exploitation of marine renewable energies has attracted the interest of governments committed to reducing carbon dioxide emissions. Particular attention has thus been dedicated to tidal stream energy, which is predictable by nature, and the wave resource, which is particularly abundant in coastal shelf seas. However, prior to the commercial-scale deployment of energy converters, refined resource assessments are required to optimize the design and location of devices while improving the economic reliability of the project. As extensive in situ observations cannot encompass the available resources at regional scale, resource assessments most often rely on numerical modelling tools. This Special Issue aims at reviewing the most recent research studies and future challenges in numerical assessments of tidal stream and wave energy, addressing model calibration, resource variability, or the environmental effects of energy extraction over a wide range of spatio-temporal timescales (from turbulence to decade and from single device to shelf sea).





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