Special Issue

Oscillations in Offshore Wind Turbines

Message from the Guest Editors

The growing demand for energy in which the world is currently immersed has led to the search for new energy sources that are clean and do not generate carbon residues. Among them, wind, wave and tidal energies emerge as promising and efficient alternatives. Wind turbines can be on land or have offshore foundations. Offshore wind turbines have a number of advantages over land-based turbines, such as no space limitations and more limited impact on the ecosystem. More recently, near-shore offshore wind turbines have migrated to deep waters, with floating platforms being a promising, cost effective and feasible solution for many countries. However, they operate in hard ambient conditions that limit their operation and compromise their integrity. In addition to adverse weather conditions, in deep waters, they are subjected to strong waves and sea currents that increase the oscillations and vibrations in their structure, thus, reducing performance and life span. Therefore, the research applied to improve the knowledge about the oscillations in offshore systems, as well as the development of techniques to control them and reduce their effects, would be very beneficial.

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