Special Issue

Foundation Systems for Offshore Wind Turbines

Message from the Guest Editor

Dear colleagues, This Special Issue focuses on the development of foundations and support structures for offshore wind turbines. Contributions may concern novel concepts; physical and computational modeling techniques; production, installation, and decommissioning methods; sustainability and life cycle analysis; cost reduction; inspection and maintenance; case studies; and the development of codes and standards. Relevant topics include geotechnical site assessment and geological models; static, cyclic, and dynamic soil–structure interactions; the design and analysis of foundations and support structures, including bottom-fixed and floating concepts; fatigue, creep, damping, and other time effects; buckling and other instability issues; structure–fluid interactions, scour and liquefaction, and structure–soil–fluid interactions; integrated analysis of loads, structures, foundations, and soil; constitutive modeling of soil and foundation materials as well as modeling of soil–structure interfaces; macro and super-element models; and multi-scale and multi-physics modelling.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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