



Reliability of Marine Energy Converters

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Message from the Guest Editor

Dear Colleagues,

The oceans cover 71% of the Earth's surface and are an enormous source of renewable energy from waves, tides, ocean currents, salinity, and temperature differences. To unlock the huge potential of marine energy, large investments to further develop these technologies are required but for that to happen several barriers need to be overcome, especially uncertainty. A major source of this uncertainty is associated with the reliability of marine energy converters (MECs).

This Special Issue aims to contribute to this problem resolution by presenting the latest developments in relevant areas. In particular, we invite papers on

- The reliability assessment of MECs (e.g., tidal, wave and ocean thermal energy converters) and their components (e.g., structural, mechanical, electrical);
- Failure modes/mechanisms of MECs and their components and the corresponding data on their frequency and criticality;
- Reliability-based maintenance and inspection of MECs and their arrays;
- Probabilistic modelling of environmental loads acting on MECs, including the effects of load uncertainties on MECs' reliability.





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Message from the Editor-in-Chief

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