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Advancements in Methods to Evaluate Energy Potential of Water Currents and in the Design and Analysis of the Performance of Hydrokinetic Turbines

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Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

This Special Issue aims to present and disseminate knowledge on the most recent advancements related to all types of microgeneration systems from water currents.

Topics of interest for publication include, but are not limited to:

- Innovative experimental methodologies related to tidal microgeneration systems under laboratory conditions;
- Numerical modelling methodologies using advanced computational methods;
- Development and validation of available resource assessment tools;
- Climate change and its effects on tidal microgeneration, and resilience of technology;
- Ecohydraulics: tidal microgeneration smart grids and its effects on biological ecosystems;
- Innovation and development of tidal energy harvesting technologies, such as smart grids and test rigs;
- Remote sensing and post-processing methods using BigData and machine learning algorithms;
- Internet of Energy (IoE): data communication protocols and its relationship with tidal microgeneration systems;
- Computational intelligence applied to tidal microgeneration energy: genetic algorithms (GAs), system analysis, and advanced optimization methods.



mdpi.com/si/193688

Special Issue



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Message from the Editor-in-Chief

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