Special Issue

New Advance in CFD Applied to Renewables: Wind-Wave Engineering and Hydrogen Combustion

Message from the Guest Editors

There has been a great increase in recent decades in the progressive implementation of new computational fluid dynamics (CFD) techniques as its use has become more feasible for most experts worldwide. In recent vears, renewable energy has experienced a remarkable development in parallel to the progressive decarbonization of industry and transport. This is clearly related to the technological, economic and social development of humanity, appearing directly under the 17 sustainable development goals established by the UN for 2030. Thus, goal 7 states that access to safe, sustainable and modern energy must be guaranteed. Likewise, objective 13 urges the adoption of measures against climate change, so it is necessary to increase the proportion of renewable energies in the energy mix. In this Special Issue, we try to reflect the latest advances in renewables through the specific wind and wave energy and the recent implementations of hydrogen, both for the industry and transport sectors. This initiative is supported by the JRL-ORE (Joint Research Lab. on Offshore Renewable Energy), https://jrl-ore.com/.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multidimensional network.

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