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Complex Flow in Fluid Machinery

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Message from the Guest Editors

Fluid machineries, such as pumps, turbines and fans, are widely used in the industrial field, and it is difficult to imagine a modern society without them. Safe operation of fluid machinery is critical to ensure the entire industrial system is performing correctly. The stable operation of fluid machinery is closely related to the complex internal flow. An unsteady flow will induce pressure pulsation, alternative force acting on the shat, vibration and noise, so it is important to develop a deep understanding of the complex flow in fluid machinery.

This Special Issue aims to present and disseminate the most recent advances related to the complex flow of fluid machinery. These include, in particular, but not exclusively:

- Flow instability;
- Cavitation;
- Flow control;
- Pressure pulsations;
- Flow-induced noise;
- Multiphase flow;
- Optimal design of fluid machinery.



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Special Issue



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Message from the Editor-in-Chief

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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