## **Special Issue**

## Flow Analysis and Structural Control of Fluid Machinery

## Message from the Guest Editor

are proud to invite you to submit articles for the Special Issue of *Applied Sciences*. Fluid machinery is a machine that uses gas or liquid as the working medium to convert energy. Its performance greatly depends on the flow state of the internal medium. The analysis and control of flow can improve the performance of fluid dynamics, thereby enhancing the efficiency and stability of the system. Therefore, this Special Issue intends to present new ideas in the field of flow analysis and structural control in all types of fluid machinery, such as pumps, valves, steam turbines, gas turbines, hydraulic turbines, compressors, ventilators, hydraulic couplers, etc. The Special Issue is mainly focused, but not limited to, the following topics:

- Compressible flow:
- Jet flow:
- Cavitation:
- Multiphase flow;
- Convective heat/mass transfer as affected by fluid flow;
- Turbulence flow;
- Microfluid flow;
- Hydrodynamics:
- Fluid-structure interaction;
- Flows in biological systems;
- Other fundamental/applied fluid mechanical phenomena and processes.

### **Guest Editor**

Dr. Fuqiang Chen

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## Deadline for manuscript submissions

closed (29 February 2024)



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## **About the Journal**

## Message from the Editor-in-Chief

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 multi-dimensional network.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

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