



Flow Analysis and Structural Control of Fluid Machinery

Guest Editor:

Dr. Fuqiang Chen

College of Mechanical and
Electrical Engineering, Beijing
University of Chemical
Technology, Beijing 100029,
China

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Message from the Guest Editor

Dear Colleagues,

Guest Editors 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.





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Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
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Message from the Editor-in-Chief

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MDPI, St. Alban-Anlage 66
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