Special Issue

Flow Regulation, Control Methods and Condition Monitoring in Hydraulic Systems

Message from the Guest Editors

Flow regulation, control methods and condition monitoring in hydraulic systems are driving progress in the field of hydraulics. This poses new challenges in the advancement of the high performance of electro-hydraulic control systems as well as their condition monitoring technology. Therefore, this Special Issue is intended for the presentation of new ideas and experimental results in the field of high-performance hydraulic components and systems, exploring design, service, and theory as well as practical use. This Special Issue will publish high-quality, original research papers in the overlapping fields of:

- *Fluid transmission;*
- *Cavitation bubble flow;*
- *Flow-induced vibration and noise;*
- *Flow field observation method;*
- *Bionic optimization design;*
- *High-performance hydraulic components;*
- *Dynamic modeling and optimization of the electromechanical hydraulic systems;*
- *Intelligent control and Reliability assessment;*
- *Artificial intelligence, machine learning, and deep learning;*
- *Dynamic modeling and optimization of the electromechanical hydraulic systems;*
- *Condition monitoring and fault diagnosis.*

Guest Editors

Dr. Xiumei Liu

School of Mechatronic Engineering, China University of Mining and Technology, Xuzhou 221116, China

Dr. Xiaoming Yuan

Hebei Provincial Key Laboratory of Heavy Machinery Fluid Power Transmission and Control, Yanshan University, Qinhuangdao 066004, China

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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