



Fluid Power Actuation Systems

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Message from the Guest Editor

Dear Colleagues,

Systems driven by fluid power such as pneumatics, oil and water hydraulics, and functional fluids have unique characteristics that are difficult to realize with other actuator drives. A new paradigm in fluid power systems is now being born by integration with soft materials, 3D printing, IoT, etc.

This Special Issue aims to present the latest research on Fluid Power Actuation Systems, including innovative fluid-driven actuators, valves, piping configuration methods, portable pressure sources, and control methods, as well as system integration. It will also cover research on epoch-making applications of fluid power systems that will revolutionize soft robotics, medical devices, construction and industrial machinery, etc.

- Fluid Power Systems
- Soft Robotics
- Drive System Using Fluid Phenomenon
- Pneumatic Actuator
- Oil Hydraulic Actuator
- Water Hydraulic Actuator
- Functional Fluid Actuator
- Valve / valve-less Control

Dr. Hideyuki Tsukagoshi

Guest Editor

