actuators

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Digital Hydraulic Control with Actuators

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Message from the Guest Editor

Dear Colleagues,

Digital hydraulic control with actuators has gained more attention from researchers because it is safe and flexible to use. Digital technology provides the actuators with the advantages of high precision, high reliability and low pollution and improves the anti-interference ability, controllability, stability and energy saving of the actuators. However, for digital hydraulic control with actuators, the following technical challenges remain to be overcome: ultra-low speed stability, anti-crawling technology, ultra-high speed and low pulsation technology, state integrated perception and modular technology, multi-source condition monitoring and intelligent fault diagnosis technology, integrated displacement/speed measurement technology, hydraulic cylinder digital drive and its associated control technology, the intelligent fault diagnosis and predictive maintenance technology of hydraulic cylinders, etc.

Papers are welcome on topics that are related to the following areas:

- Intelligent engineering machinery;
- Intelligent equipment;
- Digital hydraulics;
- Integrated actuator;
- Digital hydraulic cylinder;
- Digital hydraulic motor;
- Electric hydrostatic actuators.

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