

Special Issue

Innovative and Intelligent Actuation for Heavy-Duty Applications

Message from the Guest Editor

Contributions from all fields related to actuation and control in heavy-duty applications are welcome to this Special Issue, particularly the following:

- Twin transition technologies (zero-emission, digitalization, decarbonization, etc.);
- Novel drives, transmissions, and actuators;
- Efficient and intelligent components and systems (control, design, simulation, modeling, etc.);
- Predictive analytics (monitoring, diagnosis, etc.);
- Noise and vibration;
- Digital and switched fluid power systems;
- Functional safety and safety of intended functions.

On behalf of the *Actuators* journal, I invite you to consider this Special Issue as an excellent platform to disseminate your research results in the field of fluid power. I look forward to receiving your submissions. Sincerely,

Guest Editor

Prof. Dr. Tatiana Minav

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Deadline for manuscript submissions

closed (30 September 2023)



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About the Journal

Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of \$1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: "Performance to Reliability", "Hard to Soft", "Macro to Nano", "Homo to Hetero" and "Single to Multi functional". We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

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