

## Special Issue

# Dynamics and Design of Aerospace Actuators

### Message from the Guest Editors

This Special Issue will include linear/rotary/nonlinear actuator classes using hydraulic, electric, pneumatic, mechanical and electromechanical power sources with enhanced controllability and synchronization capabilities. Papers covering primary and secondary flight control actuation systems, landing gear extension, and retraction mechanisms, as well as actuators integration testing and validation, are sought. Advanced approaches using electrostatics, electrohydrostatics, modern ultra-high-pressure hydraulics, rare-earth rotary and linear motors, synchronization options and dynamic braking are also of interest.

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### Guest Editors

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### Deadline for manuscript submissions

31 May 2026



## Actuators

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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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### Editors-in-Chief

Prof. Dr. Kenji Uchino

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