Special Issue

Aerospace Mechanisms and Actuation—Second Edition

Message from the Guest Editor

After a successful first edition, this Special Issue on "Aerospace Mechanisms and Actuation—Second Edition" is dedicated to moveable mechanical assemblies and actuation architectures for both aeronautic and space applications under different configurations and categories. This platform focuses on various applications of both rigid-body linkages and compliant mechanisms in aerospace, where high reliability, accuracy, and demanding performance are addressed by a multidisciplinary and multi-objective design process. They range from aircraft morphing wing devices, such as morphing flaps and winglets, to adaptive structures that include deployable space systems, reconfigurable reflectors, and atmospheric re-entry vehicles. The focus is also given to the evolution of actuation in aerospace, ranging from conventional hydraulic to electromechanical actuators and related control systems. This Special Issue will publish original research articles and review articles submitted by academics in a wide range of professions, including researchers, academicians, and industry experts.

Guest Editor

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Deadline for manuscript submissions

31 August 2025

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

mdpi.com/si/202873

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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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