Special Issue

Dynamics and Control of Aerospace Systems

Message from the Guest Editors

The dynamics and control of aerospace systems have attracted growing interest due to being a key problem in the development of aerospace vehicles. The purpose of dynamics is to study system behaviours using time and force, while the purpose of control is to develop the control effect with error feedback under various working conditions. Knowledge of aerospace systems is critical for the design of control systems. There are currently 10 successful published articles in the Special Issue, we invite investigators to contribute original research and review articles addressing dynamics modelling, the stability analysis and controller design of aerospace systems. Potential topics include, but are not limited to:

- Control system design of aircraft and spacecraft;
- System modelling, analysis and identification of aerospace systems;
- System stability of aerospace vehicles;
- Sensors and control actuators of aircraft, rockets and spacecraft;
- Orbit and attitude dynamics and control;
- Drone dynamics and control;
- Experimental investigation of aerospace systems;
- Novel sensors and actuators of aerospace vehicles.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2024)

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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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