Special Issue

Robust and Optimal Control: Design Methodologies and Practical Applications

Message from the Guest Editors

Dear colleagues, When engineers began to design control systems and more specifically feedback controllers at the turn of the 20th century, with their developments driven by practical needs, their first goals were performance, efficiency and robustness. Quickly, certain design methodologies were proposed and the first applications of optimal control were presented in the early 1960s. While the initial robustness goal has long been forgotten, many robust control design methodologies have been presented since the 1980s and today the principles and performance of all control system design methodologies are evaluated for optimality and robustness. The ease of use allowing engineers to employ these methodologies for their practical problems is also a very important criterion.

Guest Editors

Dr. Patrick Lanusse

Prof. Dr. Vicente Feliu Batlle

Dr. Tudor-Bogdan Airimitoaie

Deadline for manuscript submissions

closed (31 March 2022)

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

mdpi.com/si/66662

Actuators
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
actuators@mdpi.com

mdpi.com/journal/actuators

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

mdpi.com/journal/actuators

MDPI

About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Kenji Uchino
Emeritus Academy Institute, The Pennsylvania State University, University Park, PA 16802, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)