

Special Issue

New Trends in Automation Control Systems and Their Applications

Message from the Guest Editors

Control theory deals with the control of dynamic systems of any kind in electrical, mechanical, and chemical engineering processes and tandems of industrial machines, as well as in biological and economical systems. An attractive point of the theory is that the mathematical formalism to be used is almost independent of the kind of problem at hand. The main control design purpose is to cancel or to reduce the steady-state response errors related to some prescribed reference signal. For that purpose, a designed device, the so-called controller, is coupled with the system to be controlled so that the tandem of both systems, the so-called closed-loop system, achieves the desired specifications. In fact, the designed controller fixes an appropriate corrective behavior in the uncontrolled system to achieve the suited specifications. This Special Issue will collect and bring together new ideas, either at the theoretical level or in novel applications and designs, concerning problems where control theory and/or related design tools are essential. Topics include (but are not limited to) the following:

- Nonlinear control systems
- Adaptive control
- Complex dynamical systems

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Deadline for manuscript submissions

closed (30 April 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/63426

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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