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PID Control and Symmetry

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Message from the Guest Editors

Dear Colleagues,

The striking development in industrial automation and embedded computers has brought about the explosion of system control structures that are commonly referred to as PID control. The search for appropriate solutions often requires solving symmetric or asymmetric problems. These may relate, for example, to control constraints always present in optimal control design and relay identification to reconstruction and compensation of input and output disturbances, to finding the appropriate equilibrium between the set-point and disturbance-rejection response, to choosing the working point for systems with interval uncertainties and nonlinear dynamics, to asymmetries in dealing with different types of delays, etc.

Deadline for manuscript submissions:
closed (15 August 2022)

mdpi.com/si/46816

Special Issue

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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