

Special Issue

Symmetry and Asymmetry in Nonlinear Systems

Message from the Guest Editors

Generally, industrial systems behave as nonlinear systems. Although several studies on the identification and control of systems have focused on linear systems, several problems regarding the identification and control of nonlinear systems remain. Linear systems can be regarded as special cases of nonlinear or bilinear systems. In this Special Issue, particular attention will be paid to the identification and control of nonlinear systems, with the considered nonlinearities being either static or dynamic, e.g., backlash, switch, hysteresis, or other nonlinearity types. In this Special Issue, we welcome the submission of articles addressing nonlinear systems structured in blocks (with linear and nonlinear blocks). System controls are widely utilized in the industrial sector. Therefore, in this Special Issue, we also welcome contributions that propose techniques with the potential to control nonlinear systems using backstepping, Lyapunov functions or functionals, sliding mode, and adaptive control.

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About the Journal

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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