



symmetry



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Symmetry in Control Systems Engineering

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to collect contributions related to control systems engineering where symmetry properties can help in the design and analysis. Control and automation systems at different levels of automation hierarchy are among the present and the future drivers for continuous improvement in industrial and non-industrial processes. Both time-driven and event-driven (discrete event systems, DESs) formulations can help in the modelization of such processes. Continuous improvement can be targeted from different points of view, e.g., energy efficiency, process control and supervisory control. Theoretical and practical aspects will be considered in order to provide universal, robust and holistic tuning capabilities for researchers, engineers and practitioners. Both field and simulation applications are welcome, including process control, monitoring, supervision, optimization and modelling. Contributions focused on data analysis/symmetry relationships will be considered for the Special Issue.



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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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