

Special Issue

Decision and Control in Nonlinear Systems

Message from the Guest Editors

Despite linear simplifications, real industrial systems are generally non-linear and often very complex. The analysis of nonlinear systems seeks to discover their properties, while the design of an appropriate control strategy enables practitioners to take care over the process. Therefore, efficient nonlinear control should take into account various nonlinear aspects, such as modelling, control system design, stability analysis, and its assessment and sustainability. In fact, any industrial system is additionally subject to unknown uncertainties, these unknown environments are often complex and have strange properties.

The nonlinear nature of the industrial real-time processes requires analysis with novel ideas of fractional calculus, entropy, divergence or multi-fractality, and causality analysis, among others. In this Special Issue of Applied Sciences, we want to address these state-of-the-art nonlinear analysis and control issues, with the main focus being on their industrial background and realizations using limited assumptions and model-free approaches. In this Special Issue, we will publish both original and review scientific articles, as well as short communications.

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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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