Symmetry in Fractional Calculus, Fixed Point and Mathematical Control Theory

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Message from the Guest Editors

The investigation of systems with symmetry and control systems is a complicated and very important part of contemporary mathematical control theory and harmonic analysis, which has numerous applications and attracts the attention of a number of researchers around the world. In turn, the development of the theory of differential inclusions is associated with the fact that they provide a convenient and natural tool for describing control systems of various classes, systems with discontinuous characteristics, which are studied in various branches of the optimal control theory, mathematical physics, radiophysics, acoustics, etc. However, solving these problems within the frameworks of existing theories is often a very difficult problem, since many of them find sufficiently adequate descriptions in terms of differential equations and inclusions with fractional derivatives.

The aim of this Special Issue is to show recent advances in the theory of systems with symmetry, control systems, fractional calculus, and fixed-point applications to scientific problems.

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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