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Discrete and Continuous Memristive Nonlinear Systems and Symmetry II

Guest Editors:

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Message from the Guest Editors

Dear Colleagues,

Due to the characteristics of memory and intrinsic nonlinearity, memristors have broad application prospects in fields such as flash memory, logic circuits, synapses, neural networks, and oscillator circuits. Among these, memristor-based applications have been intensively investigated, such as discrete and continuous memristive chaotic systems, memristive neural systems, and memristive nonlinear networks. Meanwhile, fractional calculus is a 300-year-old topic, and now, it has been introduced to different nonlinear systems. Moreover, applications of fractional-order calculus have aroused much interest. As a result, fractional-order discrete and continuous memristors, as well as fractional-order memristor nonlinear systems, have been designed. As a result, symmetry coexisting attractors are found in those systems. For this Special Issue, we focus on discrete and continuous memristive nonlinear systems with or without fractional calculus and their applications, such as nonlinear systems, neural networks, brain-like computing, information encryption, and symmetry. All related work is sincerely welcome.

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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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