Special Issue

Discrete and Continuous Memristive Nonlinear Systems and *Symmetry*

Message from the Guest Editor

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. Of these, memristor based nonlinear systems 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 that has now been introduced into different nonlinear systems. Moreover, applications of fractional-order calculus have also aroused much interest. As a result, fractional-order discrete and continuous memristors, as well as fractional-order memristors based on nonlinear systems, have been designed. Symmetry coexisting attractors are found in these systems. For this Special Issue, we focus on discrete and continuous memristive nonlinear systems with or without fractional calculus.....

Guest Editor

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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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