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Symmetry in Chaotic Systems and Circuits III

Guest Editor:

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Deadline for manuscript submissions:
31 December 2024

Message from the Guest Editor

Dear Colleagues,

Chaos theory is one of the most fascinating fields in modern science, revolutionizing our understanding of order and pattern in nature. Symmetry, a traditional and highly developed area of mathematics, would seem to lie at the opposite end of the spectrum. However, in the last few years, scientists have found connections between these two areas, connections that can have profound consequences for our understanding of the complex behavior in many physical, chemical, biological, and mechanical chaotic systems.

Therefore, symmetry can play an important role in the field of nonlinear systems and especially in the field of designing nonlinear circuits that produce chaos. More specifically, from designing chaotic systems and circuits with symmetric nonlinear terms to the study of a system's equilibria with symmetry in the case of self-excited attractors or symmetric line of equilibria in the case of hidden attractors, the feature of symmetry can play a significant role in such systems.

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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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