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Nonlinear Circuits and Systems in Symmetry

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Deadline for manuscript submissions:
closed (1 October 2019)

Message from the Guest Editors

Dear Colleagues,

Symmetry in our special means to get from nonlinear circuits and systems added values, that cannot be achieved with linear systems. Very simple nonlinear circuits and devices present complex behavior in mantaining order and generating patterns. Imperfect dynamical nonlinear systems work thanks to noise. Taming nonlinear circuits can be achieved thanks to structural asymmetries. Papers regarding theory and applications, with an emphasis on uncertainty, noise and imperfections, are welcome; moreover, papers regarding taming chaos and self-organization-based devices are of wide interest. Moreover, the hidden order of such a system is an interesting and widely-discussed topic in the literature. The papers should also concern special types of bifurcation that arise in these types of systems. Communications regarding chaos synchronization in structures with symmetries are also encouraged. Robustness evaluation performance in nonlinear networks should be another topic for contributions. Engineering applications regarding the previous areas will be highly considered.

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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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