Special Issue

Nonlinear Systems, Complex Dynamics, and Entropy in Electrical Engineering

Message from the Guest Editor

This Special Issue welcomes all papers focused on the analysis of electronic systems from the perspective of complex and unpredictable behavior. Investigated circuits can be either autonomous or driven, either lumped or with spread parameters, having conventional structure or artificially designed to generate waveforms with entropic properties. This topic comprises the mathematical modeling of electronic systems, developing numerical methods for the analysis of dynamical systems and their verification through practical example, the critical evaluation of general mathematical issues in electronics, the computer-aided simulation of analog or digital functional blocks and associated behavioral quantification, the qualitative analysis of complex electronic systems, the application of known methods to unknown (unpublished) problems from electrical engineering, the improvement of commonly used models of electronic systems with respect to real measurement results, reports about discrepancies between simulation and measurement results in electronic systems, the modeling of nonlinear dynamics via electronic circuits, practical applications of chaotic circuits, etc.

Guest Editor

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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