



Bifurcation, Chaos, and Fractals in Fractional-Order Electrical and Electronic Systems

Guest Editors:

Dr. Faqiang Wang

State Key Laboratory of Electrical
Insulation and Power Equipment,
School of Electrical Engineering,
Xi'an Jiaotong University, Xi'an
710049, China

Dr. Shaobo He

School of Automation and
Electronic Information, Xiangtan
University, Xiangtan 411105,
China

Dr. Hongbo Cao

School of Automation and
Information Engineering, Xi'an
University of Technology, Xi'an
710048, China

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Message from the Guest Editors

Fractional-order model and the design of the fractional-order controller have become a current hot topic. However, fractional-order electrical and electronic systems have complex dynamical properties, among them, bifurcation, chaos, and fractals are typical nonlinear phenomena and will have an important effect on the system's performance. Thus, it is necessary to reveal the underlying mechanism of the occurrence of these typical nonlinear phenomena and design a controller to make these typical nonlinear phenomena disappear.

This Special Issue aims to focus on bifurcation, chaos, and fractals in fractional-order electrical and electronic systems and their control; continuous/discrete modeling and stability analysis of fractional-order electrical and electronic systems; multi-timescale and entropy analysis of fractional-order electrical and electronic systems; and optimization of the control accuracy for fractional-order electrical and electronic systems. Improvements and applications of fractional calculus in electrical and electronic systems are also required.

