



Fractional-Order Circuit Theory and Applications

Guest Editors:

Prof. Dr. Costas Psychalinos

Prof. Dr. Ahmed Radwan

Prof. Dr. Blas M. Vinagre

Dr. Karabi Biswas

Deadline for manuscript
submissions:

closed (31 January 2022)

Message from the Guest Editors

The focus of this Special Issue is on the recent advances of these applications. The topics of interest include (but are not limited to):

- Analog and digital realization of fractional-order operators
- Approximations of the fractional-order derivatives and their applications in circuit design
- Circuit implementation, analysis, and fabrication of fractional-order components
- Fractional calculus models in physics, electrochemistry, and fluid mechanics
- Fractional-order control and its applications
- Fractional-order chaotic systems and their implementation
- Fractional-order bioimpedance models and biomedical circuits
- Fractional-order mem-elements, modeling and applications
- Fractional-order models for energy storage devices and systems
- Fractional-order circuits for machine learning
- Fractional-order nonlinear circuits and systems

