

Special Issue

Fractional-Order Controllers in Electronics and Automation Engineering, 2nd Edition

Message from the Guest Editors

Fractional-order control was successfully incorporated into well-known control strategies such as the PID structure, which has been combined with more sophisticated approaches to validate effectiveness and feasibility of noninteger-order techniques. To date, some theory and practical results have been reported, but a systematic procedure to integrate a fractional-order approach into a control strategy and its implementation are not clear enough. Therefore, the aim of this Special Issue is to motivate the development of advanced research on the theory, design, and experimental validation of fractional-order control strategies. Thus, the topics of interest include, but are not limited to, the following:

- Fractional-order control strategies for energy harvesting/management.
- Batteries fractional-order modeling.
- Analog and digital implementation of fractional-order controllers.
- Fractional-order control strategies developed for electromobility.
- Fractional-order circuit theory.
- Applications for fractional-order calculus.
- The implementation of fractional-order approximations through circuitry.
- Stability of systems regulated with fractional-order controllers.

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About the Journal

Message from the Editor-in-Chief

Fractal and Fractional (*Fractal Fract.*) is a scholarly online journal which provides a forum for discussion on new original models and methods in fractals and fractional calculus both from theory and applications. It is a peer-reviewed, open access journal that publishes high quality original research articles, review papers and short communications.

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