

Special Issue

Fractional Control Systems and Estimation: Control, State Observers and Parameter Estimation

Message from the Guest Editors

The interest in using fractional order tools has increased rapidly over the last few decades, with solid results being obtained for the study of fractional order systems and signals for transient behavior, stability, convergence, and boundedness viewpoints, allowing for a comparison of these techniques with those based on integer order derivative and integral operators, expanding the horizons of these topics. The present Special Issue of interest include, but are not limited to, the following areas:

- Fractional order control (adaptive and non-adaptive) theory and practice;
- Fractional systems analysis and design;
- Fractional order observers and estimators;
- Fractional parameter estimation;
- Robust fractional order control;
- FO PID controllers;
- Fractional order sliding mode control and applications;
- Stability of fractional order differential equations and systems;
- Back-stepping fractional order control (adaptive and non-adaptive systems);
- Fractional differential or difference equations;
- Mathematical and numerical methods of fractional order control systems;
- Theory and applications of fractional order identification and control.

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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.

Editor-in-Chief

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