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Fractional-Order System: Control Theory and Applications

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Message from the Guest Editors

In the last two decades, fractional differential equations have been used more frequently in physics, signal processing, fluid mechanics, viscoelasticity, mathematical biology, electrochemistry, and many other fields, opening a new and more realistic way to capture memory-dependent phenomena and irregularities inside systems using more sophisticated mathematical analysis. The focus of this Special Issue is to continue to advance research on topics relating to fractional-order control theory and its applications to practical systems modeled using fractional-order differential equations. Topics that are invited for submission include (but are not limited to):

- Fractional-order control theory for fractional-order systems;
- Fractional-order control theory for integer-order systems;
- Digital implementation of fractional-order control;
- New physical interpretation of fractional-order operators and their relationship to control design;
- Verification and reachability analysis of fractional-order differential equations;
- Etc.



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