Application of Fractional-Calculus in Physical Systems

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Message from the Guest Editors

Dear Colleagues:

It is well known that fractional calculus has numerous applications in engineering, science, and technology. The dynamics of challenging physical systems are closely connected to fractional calculus. Fractional calculus and its application for physical systems is a topic of extensive theoretical and analytical research around the world. Recent contributions to this essentially interdisciplinary field from theoretical, analytical, numerical, and computational perspectives are the focus of this Special Issue. This Special Issue collects original research work on recent developments in fractional calculus including:

- Fractional calculus in physical systems;
- Fractional differential equations;
- Modeling and simulation;
- Fractional dynamical system;
- Fractional control theory;
- Numerical methods;
- Fractional calculus and chaos;
- Non-locality and memory effects;
- Non-locality in physical systems;
- Modeling biological phenomena;
- Non-locality in epidemic models;
- Theoretical and computational analysis.

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