



Fractional Deterministic and Stochastic Models and Their Calibration

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Message from the Guest Editors

Dear Colleagues,

The Special Issue embraces the contributions regarding fractional deterministic and stochastic models, numerical techniques or theoretical justification for their calibration, and insights and outlooks (review papers) on potentials of fractional models in interpreting and discovering nature rules. The aim of the Special Issue is to attract attention of mathematicians, scientists, and engineers outside the fractional community, by providing more physical justifications for fractional models.

Potential topics include, but are not limited to

- Fractional modeling in acoustic waves, hydrodynamics, viscoelasticity, fluid/solid mechanics, turbulence, finance, biology, physics, control systems, etc.;
- Numerical methods for Fractional differential equations with random inputs;
- Numerical methods for stochastic differential equation driven by fractional Brownian motion;
- Machine learning and other inversion techniques for fractional inverse problems;
- Wellposedness analysis of fractional inverse problems.

