



Recent Advances in Theoretical and Numerical Analysis for Fractional and Integral Differential Equations

Guest Editors:

Prof. Dr. Dongfang Li

Hubei Key Laboratory of
Engineering Modeling and
Scientific Computing, Huazhong
University of Science and
Technology, Wuhan 430074,
China

Dr. Hongyu Qin

School of Mathematics and
Statistics, Wuhan University,
Wuhan 430072, China

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Message from the Guest Editors

Dear Colleagues,

Fractional differential equations and integral differential equations have attracted a great amount of attention in recent years. They widely appear in applied mathematics, physics, biology, chemistry and other disciplines. The typical models include sub-diffusion equations, diffusion-wave equations, space-fractional differential equations, and so on. It is usually difficult to obtain analytical solutions, due to the integral terms in the models. Fortunately, the evolution of differential equations can be well described by using some well-designed and high-order numerical schemes. Therefore, it has become a hot topic to numerically solve and analyze the equations. The potential topics include, but are not limited to, the following:

- New theoretical results for fractional differential equations and integral differential equations;
- New numerical methods for solving fractional differential equations;
- New numerical methods for solving integral differential equations;
- New numerical methods for solving non-local problems;
- Numerical analysis of the numerical methods;
- Application of fractional differential equations.





Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

Message from the Editor-in-Chief

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