



Recent Advances in Functional Analysis, Semigroup Theory and Difference-Differential Equations

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Deadline for manuscript
submissions:

closed (31 August 2021)

Message from the Guest Editors

Functional analysis is a methodology that is used to explain the workings of a complex system, such as that of our physical world. There has been special interest in illustrating its connections with semigroup theory and differential–difference equations; both branches are powerful tools that can provide new and interesting results.

In this Special Issue, we will show the importance of these theories with numerous applications to theoretical and physical problems. We will consider fractional difference–differential equations (in a wide sense) rather than ordinary differential–difference derivatives, as they provide an excellent instrument to describe certain processes and systems with nonlocality and memory. Consequently, these equations are used in an ever-widening range of models of physical processes, and they have attracted much attention in recent years. This research will provide new challenges to the scientific community.





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Message from the Editor-in-Chief

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