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Advances in Approximation Theory and Numerical Functional Analysis

Guest Editor

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Deadline for manuscript submissions:

31 March 2025

Message from the Guest Editor

Dear Colleagues,

The purpose of this Special Issue is to present recent results in the fields of mathematical analysis, approximation theory, and numerical functional analysis, as well as to describe the numerical methods currently being used in important areas of applications of approximation theory.

Some classics of approximation theory include quantitative direct and inverse estimates for approximation by positive linear operators (p.l.o.), Voronovskaja-type theorems, approximation, linking-type weighted operators, simultaneous approximation by some classical operators, best constants in classical and new polynomial inequalities and many others are the focus of this book. Different types of inequalities for algebraic and trigonometric polynomials like inequalities of Bernstein, Markov and best constants in also various estimates are attractive topics approximation theory. Splines, including Schoenberg variation-diminishing spline operators and their numerous applications in numerical analysis, are also an interesting branch in approximation theory. Interpolation by these modern tools in one or more dimensions have been studied intensively in recent decades.











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Message from the Editor-in-Chief

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