Editorial

Recent Developments on Summability Theory and Its Applications

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The aim of this special issue is to focus on the latest developments and achievements in summability theory such as sequence spaces and their geometry, statistical summability and statistical approximation, almost summability, fuzzy sequence spaces, matrix summability, compact matrix operators between sequence spaces, infinite systems of differential and integral equations in sequence spaces, and various applications. The theory of sequence spaces is a powerful tool for obtaining positive results concerning Schauder bases and plays a fundamental role in creating the basis of several investigations conducted in nonlinear analysis.

The research papers in this special issue cover various topics like uniform convergence of sequences and series of fuzzy-valued functions, stability of functional equations, performance on ICI self-cancellation in FFT-OFDM and DCT-OFDM system, paranormed sequence spaces and related duals over the non-Newtonian complex field, Fourier expansions with polynomial terms, statistical summability methods of order β of sequences of fuzzy numbers, fixed point theorems for contractive mappings, and star-shaped sets in manifolds. We believe that the results presented in this issue will be a source of inspiration for researchers working in summability theory and related areas of mathematics.

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