



Fourier Analysis, Approximation Theory and Applications

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Message from the Guest Editors

Dear Colleagues,

Fourier analysis took root in Europe more than two hundred years ago, and since then, it has given rise to several new concepts and theories in different areas of contemporary mathematics. The first steps in the development of the theory were related to the representation of an arbitrary function by a trigonometric series. The concept of the Lebesgue integral strongly encourages the further development of the theory, considering functions from the different classes of functions which can be represented by series which converge or are summable in different senses. With different types of applications, one can study series with respect to other types of orthogonal systems. To represent functions of various variables, multiple orthogonal series are considered. Fourier analysis has many scientific applications, particularly in boundary value problems, approximation theory, signal processing, digital image processing and others.

In this Special Issue, we encourage submissions of up-to-date results related to classical approaches of Fourier analysis and its applications.





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Message from the Editor-in-Chief

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