



New Directions in Theory of Approximation and Related Problems

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submissions:

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to collect original and significant contributions dealing with both the theory and applications of approximation theory and related topics. In recent decades, with the development of computational techniques but also of generating increasingly complex problems, the theory of approximation has known new directions of research and development.

Thus, this Special Issue provides new trends in the field of approximation theory and related applications, a field which is an important bridge between pure and applied mathematics.

The present issue covers **topics** in classical approximation, approximation using linear and positive operators, degree of approximation, interpolation and quadratures, multivariate approximation, spline functions of one and several variables, numerical algorithms, *numerical methods for partial differential equations*, and fixed point theory and its applications.





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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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