Complex Variable in Approximation Theory: Volume 2

Guest Editor:

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Message from the Guest Editor

The close connection between the real and the complex variable is well known, not only for the closure of the complex field with respect to the roots of algebraic equations with real coefficients, which is proven in the so-called fundamental theorem of algebra, but also in many problems of mathematical analysis.

In fact, phenomena such as the length of the convergence radius of the McLaurin series expansion of the arctangent function or even the Runge phenomenon in the Lagrange interpolation over a set of equispaced points would be incomprehensible without the knowledge of the behavior of the considered functions in the complex plane.

In the opinion of the Guest Editors, there are many other possibilities for the application of the use of complex analysis tools to solve problems of approximation of the real variable.

This Special Issue is intended to encourage scholars to submit their research in this interesting field of study.

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Special Issue

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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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