

Special Issue

Approximation Theory and Methods 2020

Message from the Guest Editor

The importance of approximation theory and related methods ranges from a need to represent functions in computer calculations to an interest in the mathematics of the subject; work in numerical analysis and in mathematical computation is one of the main links between these two extremes. In this Special Issue, we will cover the field of spectral problems; exponential integrators for ODE systems; and some applications for the numerical solution of evolutionary PDE, also discretized, by using the concepts and the related formalism of special functions and orthogonal polynomials, which represent a powerful tool to simplify computation. Not only this, we will open computer users with efficient programs for general approximation calculations, in order that useful advances in the subject can be applied. Key words:

- Splines
- Multivariate approximation
- Approximation operators
- Special functions and orthogonal polynomials
- Theory of minimax approximation
- Approximation to periodic functions

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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