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Polynomial Sequences and Their Applications

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Deadline for manuscript submissions:

closed (31 October 2022)

Message from the Guest Editors

Dear Colleagues,

Sequences of polynomials perform an important role in several branches of science: mathematics, physics, engineering, etc. A Special Issue that compiles the state of the art of current research will be very useful for the mathematical community.

Potential topics include but are not limited to the following:

- Modern umbral calculus (binomial, Appell and Sheffer polynomial sequences)
- Orthogonal polynomials, matrix orthogonal polynomials, multiple orthogonal polynomials and orthogonal polynomials of several variables
- Operational methods and the monomiality principle
- Generating functions of special classes
- Matrix and determinant approach to special polynomial sequences
- Applications of special polynomial sequences in approximation theory, in boundary value problems and in quadrature formulas
- Number theory and special classes of polynomials
- Asymptotic methods in orthogonal polynomials
- Fractional calculus
- Bernstein basis
- Extrapolation methods



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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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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