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# Special Functions and Polynomials: Theory, Practice, Applications, and Modeling

Guest Editors:

#### Dr. Serkan Araci

Department of Basic Sciences, Faculty of Engineering, Hasan Kalyoncu University, TR-27010 Gaziantep, Turkey

#### Prof. Dr. Mehmet Acikgoz

Department of Mathematics, Faculty of Arts and Sciences, Gaziantep University, TR-27310 Gaziantep, Turkey

#### Dr. Ugur Duran

Department of Basic Sciences of Engineering, Faculty of Engineering and Natural Sciences, Iskenderun Technical University, TR-31200 Hatay, Turkey

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## Message from the Guest Editors

Special polynomials and numbers have significant roles in various branches of mathematics, theoretical physics, and engineering. The problems arising in mathematical physics and engineering are framed in terms of differential equations. Most of these equations can only be treated using various families of special polynomials which provide new means of mathematical analysis. They are widely used in computational models of scientific and engineering problems. Applications of various properties of special functions and polynomials also arise in problems of number theory, combinatorics, theoretical physics, and other areas of pure and applied mathematics, providing the motivation for introducing a new class of special functions and polynomials.

Each paper that will be published in this Special Issue should aim to enrich our understanding of current research problems, theories, applications, and modeling of special functions and polynomials.

Potential topics include but are not limited to the following:

- Special functions
- Special polynomials
- Orthogonal polynomials
- *q*-Analiz
- *p*-adic analysis
- Umbral calculus
- Differential ar an tegral equations
- Number theory





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## **Editor-in-Chief**

#### Prof. Dr. Humberto Bustince

Department of Statistics, Computer Science and Mathematics, Public University of Navarra, 31006 Pamplona, Spain

### Message from the Editor-in-Chief

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*Axioms* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/axioms axioms@mdpi.com X@Axioms\_MDPI