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Mathematical Analysis and Applications II

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Mathematical Analysis and Applications II

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The present volume contains the invited, accepted and published submissions (see [1–17]) to a Special Issue of the MDPI's journal, *Axioms*, on the subject-area of “Mathematical Analysis and Applications II”. A successful predecessor of this volume happens to be the Special Issue of the MDPI's journal, *Axioms*, on the subject-area of “Mathematical Analysis and Applications” (see, for details, [18]). In fact, encouraged by the noteworthy success of these two Special Issues, *Axioms* has already started the publication of a Topical Collection, titled “Mathematical Analysis and Applications” (Collection Editor: H. M. Srivastava), with an open submission deadline.

In recent years, investigations involving the theory and applications of mathematical analytic tools and techniques are remarkably wide-spread in many diverse areas of the mathematical, physical, chemical, engineering and statistical sciences. In this Special Issue, we chose to invite and welcome review, expository and original research articles dealing with the recent advances in mathematical analysis and its multidisciplinary applications.

The suggested topics of interest for the call of papers for this Special Issue included, but by no means limited to, the following keywords:

- Mathematical (or Higher Transcendental) Functions and Their Applications.
- Fractional Calculus and Its Applications.
- q -Series and q -Polynomials.
- Analytic Number Theory.
- Special Functions of Mathematical Physics and Applied Mathematics.
- Geometric Function Theory of Complex Analysis.

Here, in this Editorial, we choose first to briefly describe the status of the Special Issue as follows:

1. Publications: 17.
2. Rejections: 22.
3. Article Type: Research Article (16); Review (1).

Authors' geographical distribution:

- Saudi Arabia (5).
- Italy (3).
- Taiwan (3).
- Germany (2).
- India (2).
- Turkey (2).
- Jordan (2).

- Korea (2).
- Thailand (2).
- Ukraine (1).
- Azerbaijan (1).
- Malaysia (1).
- USA (1).
- Iran (1).
- Thailand (1).
- Serbia (1).
- Tunisia (1).

Papers included in this volume deal extensively with various theoretical as well as applied topics of mathematical analysis of current research interests. Some of the notable contributions in this volume happen to have successfully addressed such topics of mathematical analysis and applications as (for example) Hyperbolic Trigonometric Functions and Associated Polynomials, Szász–Mirakjan Beta-Type Approximation Operators, Holomorphic Functions in One and More Variables, Hypergeometric Functions and Their Generalizations, Hyers–Ulam–Type Stability Problems, Fixed Point Results, Bose–Einstein and Fermi–Dirac Functions, Hermite–Hadamard-Type Inequalities, Elastostatics with Singular Boundary Values, Sequence Generating Functions and Classical and Non-Classical Polynomial Sets.

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