Orthogonal Polynomials and Special Functions: Recent Trends and Their Applications

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Message from the Guest Editor

Orthogonal polynomials and special functions are two well-established streams of research in mathematical sciences. As is well-known, these subjects are considered classical, and there exist a large number of very interesting developments of them through the centuries, which are distinguished by an original approach and an in-depth study of the theoretical and/or applied problems considered.

Since orthogonal polynomials and special functions are often driven by applications, these subjects have provided numerous applications to various branches of mathematics, e.g., combinatorics, numerical analysis, representation theory, number theory, and applications to engineering, physics and astronomy, integrable systems, optics, quantum chemistry, computer science, etc. In this way, the number of theoretical and applied problems solved using orthogonal polynomials and special functions is constantly growing.

The aim of this Special Issue is to present recent trends and applications linked to these subjects, mainly those addressed to engineering mathematics and related topics.

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Special Issue

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Message from the Editor-in-Chief

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