

Special Issue

Orthogonal Polynomials and Special Functions: Recent Trends and Their Applications

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.

Guest Editor

Dr. Yamilet Quintana

Departamento de Matemáticas, Universidad Carlos III de Madrid,
Avenida de la Universidad 30, 28911 Leganés, Madrid, Spain

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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 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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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