Mathematical Logic and Foundations of Mathematics

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Message from the Guest Editors

Mathematical logic is often divided into fields of set theory, model theory, recursion theory, and proof theory. This Special Issue will consider high-quality papers which present original research in mathematical logic and the foundations of mathematics. There will be a particular emphasis on set theory and the several axiomatic systems that have been proposed over time in accordance with our intuition (avoiding paradoxes). We hope to produce desirable results, presenting enough papers with credible rationales and stimulating approaches for understanding the fundamental constructions of mathematics and set theory.

We expect papers covering the following topics: model theory, recursion theory, proof theory, set theory, or algebraic logic. Articles challenging the traditional axiomatization, which includes the axiom of choice, the choice principles, the axiom of foundation, and the axiom of infinity, as well as those related to set theories with atoms and finitely supported structures. We will accept manuscripts specifically focusing on applications of set theory and logic to (theoretical) computer science (semantics, domain theory, rewriting systems, reversibility).

Special Issue

Editor-in-Chief

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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.

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