

Special Issue

Mathematical Philosophy and Mathematical Logic

Message from the Guest Editor

Mathematics poses specific philosophical problems including ontological and epistemological ones. What is the nature of mathematical objects? What are the fundamental laws that govern them? How do we acquire mathematical knowledge about them? These are three questions that the Philosophy of Mathematics tries to answer. Mathematical logic is a branch of mathematics that emerged in the 20th century that *The Mathematics Subject Classification* divides into the following areas: the philosophy of mathematics, general logic (which includes fields such as modal logic and fuzzy logic), model theory, computability theory, set theory, the theory of demonstration and constructive algebraic mathematics, and non-standard models. Mathematical logic is today considered an important embodiment of our cultural world and is used increasingly in computer applications and automatic mechanisms. It is created by mathematicians using arithmetic, algebraic, analytical, topological, and axiomatic methods. Thus, with respect to the content, a greater type of abstraction and greater formal autonomy are achieved: it is no longer purely formal; it is formalized.

Guest Editor

Prof. Dr. Josep Lluís Usó-Doménech
Department of Mathematics, Universitat Jaume I, Castelló de la Plana,
12071 Valencian Community, Spain

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Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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About the Journal

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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