Topology and Foundations

Collection Editors:

Prof. Dr. Lorentz Jäntschi
Department of Physics and Chemistry, Technical University of Cluj-Napoca, 400641 Cluj-Napoca, Romania

Prof. Dr. Dušanka Janežič
Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Glagoljaška 8, SI-6000 Koper, Slovenia

Message from the Collection Editors

A *foundational* example in *topology* leading to *graph theory* as a new branch of *mathematics* is when Leonhard Euler demonstrated that it was impossible to find a route through the town of Königsberg (now Kaliningrad) that would cross each of its seven bridges exactly once.

Subjects included in *topology* are graph theory and algebraic topology. *Topology* is in all fields of engineering, physical sciences, life sciences, social sciences, medicine and even arts, economics, finance, and finally mathematics-related sciences: informatics, physics, chemistry and biology.

Foundations extend beyond *topology* as the basis or groundwork of anything. *Foundations* are under algebraic geometry, tropical geometry, logic and deductive systems, functions, algebraic topology, homotopy theory, probability theory, stochastic processes, statistics, physics and finally quantum information and its processing.

This Topical Collection aims to bring together recent scientific advances, reviews, communications and short notes dealing with *topology* and *foundations*.

Topical Collection

Editor-in-Chief

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

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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