

Special Issue

Geometry and Topology with Applications

Message from the Guest Editor

Geometry is a vast and active area of research in pure mathematics, with a history and tradition going back to the work of Euclid (in antiquity) and then in the pioneering work of Gauss and Riemann. The intimate connection with applications has given rise to deep mathematical questions, such as the theory of general relativity or Poincaré's conjecture. On the other hand, topology, as an independent research branch of modern mathematics, goes back to Riemann and then to Poincaré's itself. In fact, he can be considered the true founder and father of modern (algebraic) topology. More recently, the two greatest geometers of the last century, W. Thurston and M. Gromov, have contributed in a revolutionary way to making an epochal turning point in the study of geometry and topology. Thurston gave an immense boost to the development of both low-dimensional topology and geometric topology, while Gromov's work ranges from Riemannian geometry to differential topology, from (geometric) group theory to graph theory, and from analysis to probability.

Guest Editor

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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.

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