



## Mathematical Methods for Computer Science

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Deadline for manuscript submissions:  
**closed (28 February 2023)**

### Message from the Guest Editors

Mathematics has a close relationship with the development of computer science, such as applied mathematics, represented by discrete mathematics, which is focused on the process of transforming continuous models or equations into discrete forms and serves as a bridge between computers and humans. Mathematical proofs also play a growing role in computer science; they are used to certify that software and hardware will always behave correctly, something that no amount of testing can achieve. Unlike using mathematical models and methods to analyze problems that arise in computer science, mathematicians have used computers to assist in the discovery of patterns and formulation of conjectures. Recently, based on numerical methods, language theory, and so on, researchers have begun to use data-driven methods in some subfields, including image processing, knowledge representation, natural language processing, and machine learning. Additionally, neural networks have demonstrated that they can aid mathematicians in discovering new conjectures and theorems. This Special Issue of *Sensors* is dedicated to original research and recent developments in mathematical methods and computer science.





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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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