Special Issue

Applications of Number Theory to the Sciences and Mathematics

Message from the Guest Editor

The scope of this Special Issue on applications of number theory to sciences and mathematics includes the application of number theory (all subfields) to problems of scientific interest. This includes physics, physical mathematics, chemistry, biology, neuroscience, psychology, etc. Related fields, such as combinatorics, group theory, graph theory, complex analysis, etc., are also included in the call if they use techniques found in number theory. The rationale for this Special Issue is the following. Those scientists working on the more physical side of the spectrum are often well-training in applied analysis, differential equations, and linear algebra. Meanwhile, those working on the more life science side of the spectrum often have a strong background in statistics. Either way, it is often the case that ideas from number theory are lacking in the mathematical preparation and, consequently, in the applied setting. The goal of this Special Issue is to collect papers that show the application of number theory in the broad sense to solve problems in science and to help scientists learn about methods arising in number theory.

Guest Editor

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Message from the Editor-in-Chief

Mathematics permeates all kinds of academic worlds and is a fountain flowing with innovative development. The journal *AppliedMath*, publishing high-quality refereed papers discussing various aspects of applied mathematics, is dedicated to promoting the integration of mathematics with applied disciplines to cultivate a profitable frontier of mathematics. The journal highlights articles devoted to the mathematical treatment of questions and phenomena arising in physics, chemistry, biology, medicine, pharmacy, engineering, information science, social sciences, and humanities. One of the missions of this journal is to serve scientists by quickly announcing the seeds of significant mathematical breakthroughs in science and technology.

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