Special Issue

Recent Trends in Convex Analysis and Mathematical Inequalities

Message from the Guest Editor

Convex analysis is the branch of mathematics devoted to the study of properties of convex functions and convex sets. It introduces analytic tools for studying convexity and provides analytical applications of the concept. Convex analysis touches almost all branches of mathematics. Convex functions play an important role in many areas of mathematics, as well as in other areas of science economy, engineering, medicine, industry, and business. It is especially important in the study of optimization problems, where it is distinguished by a number of convenient properties (for example, any minimum of a convex function is a global minimum, or the maximum is attained at a boundary point). However, any inequalities hold for convex functions. Some of them hold only for convex functions. In this Special Issue, we call for papers on new results in the domain of convex analysis, mathematical inequalities, and applications in probability and statistics. Welcomed are new proofs of well-known inequalities, or inequalities in various domains: integral inequalities, differential inequalities, norm, operator, and matrix inequalities.

Guest Editor

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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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