

Special Issue

Random Combinatorial Structures

Message from the Guest Editors

Decomposable combinatorial structures are characterized via their components, such as cycles in permutations, parts in integer partitions, connected components in graphs, irreducible factors in polynomials over finite fields, etc. Such structures are ubiquitous in numerous areas of mathematics and its applications. Modern approach to “big” combinatorial structures is concerned with their typical macroscopic properties (e.g., limit shape) under a suitable probability measure. Of particular interest are possible effects caused by various constraints imposed, say, on the source of components, their multiplicities, total number, etc. Possible multivariate extensions include convex lattice chains (polygonal lines) and zonotopes.

Furthermore, many topics in related domains may have a similar flavor—for example, in random matrix theory, with interesting subclasses exemplified by permutation matrices and band matrices. This Special Issue aims at collecting high-quality papers to summarize and consolidate the state of the art in this fascinating research area along with modern advances in diverse applications.

Guest Editors

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Deadline for manuscript submissions

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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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