

Special Issue

Advance in Algebraic Structures and Representation Theories

Message from the Guest Editor

The study of representation theory has been explored for a variety of algebraic structures, yielding significant impacts across numerous fields, ranging from pure and applied mathematics to physics. Classifying representations of algebraic objects essentially relies on methods and results from cohomology theory. Over the years, representation and cohomology theories have evolved into closely intertwined areas in the study of algebraic structures. This Special Issue aims to showcase recent advances in these fields and their interactions with other disciplines. Topics of interest include (but are not limited to) representations and cohomology of finite and algebraic groups and their applications to representation theory applied to related structures such as Lie algebras and quantum groups. We invite original research papers and reviews that contribute to the themes of this Special Issue.

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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