Advances in Algebraic Structures: Representation Theory and Lie Groups

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Message from the Guest Editor

Dear Colleagues,

Understanding the structure of Lie groups using representation theory has become an important topic of research in modern mathematics with a wide variety of applications in many fields, ranging from differential geometry, algebraic geometry, or Riemannian geometry to mechanics, robotics, or gauge theory in physics. Consequently, authors publishing papers in these areas may be better served by a platform that tracks recent development and applications of Lie groups and their representations.

This Special Issue aims to collect reviews and original research papers on various topics concerning the recent progress in the theory of Lie groups, Lie algebras, and their representation. This includes research on other disciplines that involves information of and relationship with Lie groups.

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Special Issue

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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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