Special Issue

Latest Trends in Noncommutative Algebra

Message from the Guest Editor

The origin of noncommutative algebra goes back to the mid 19th century when Hamilton discovered quaternions. Later, Wedderburn, Noether and Artin laid down the foundation of the theory of noncommutative rings. In the past few decades, many new topics have emerged on the interface of noncommutative algebra with algebraic geometry, operator algebra and physics, such as Hopf algebra, noncommutative Calabi–Yau algebra, quantum cluster algebra, and Leavitt path algebra. In the area of the study of modules over noncommutative rings, there have been a lot of advances in the past few decades, i.e., the theory of approximations of modules, generalizations of homological properties, and the theory of purity. In this special volume, I would like to invite contributions that highlight recent developments in the area of noncommutative rings and modules over them. These may include tools and techniques that are categorical, combinatorial or homological. Contributions leaning toward applications in coding theory are welcome too.

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2022)

Axioms

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Impact Factor 1.6

mdpi.com/si/85357

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Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

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