Special Issue

Non-associative Structures and Other Related Structures

Message from the Guest Editor

Non-associative algebras are currently a fashionable research direction. There are two important classes of non-associative structures: Lie structures and Jordan structures. Various Jordan structures play an important role in quantum group theory and in fundamental physical theories. In recent years, several attempts to unify non-associative structures have led to interesting results. The UJLA structures are not the only structures which realize such a unification. Associative algebras and Lie algebras can be unified at the level of Yang–Baxter structures. Several papers published in the open access journal *Axioms* deal with the Yang–Baxter equation. The Yang–Baxter equation can be interpreted in terms of logical circuits and, in logic, it represents a kind of compatibility condition when working with many logical sentences in the same time. This equation is also related to the theory of universal quantum gates and to quantum computers. It has many applications in quantum groups and knot theory. Contributions related to non-associative structures, various aspects of the Yang–Baxter Equation, and their applications are invited.

Guest Editor

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Message from the Editor-in-Chief

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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