Special Issue

Non-associative Structures, Yang–Baxter Equations and Related Topics

Message from the Guest Editor

Non-associative algebra is receiving more and more attention these days (as a revived research direction). There are two important classes of non-associative structures (Lie structures and Jordan structures), and the attempts to unify (non-)associative structures have led to new, interesting results. The Yang–Baxter equation first appeared in theoretical physics in a paper by the Nobel laureate C.N. Yang (in 1968) and in statistical mechanics in R.J. Baxter's work (1971). It turned out that this equation plays a crucial role in quantum groups, knot theory, braided categories, analysis of integrable systems, quantum mechanics, non-commutative descent theory, quantum computing, non-commutative geometry, etc. Contributions related to non-associative algebra and/or to Yang–Baxter equations, solutions to open problems proposed in our previous Special Issues, and related research are warmly invited for consideration for this Special Issue.

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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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