



Hypergroup Theory and Algebrization of Incidence Structures

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Message from the Guest Editors

Hyperstructure theory has experienced a surge of interest since the 1970s, when its research area was greatly expanded by the introduction of other useful concepts: canonical hypergroups, hyperrings, hyperfields, hypervector spaces, semihypergroups, and so on. Later, a number of mostly Italian mathematicians established remarkable relationships between algebraic hyperstructures, finite geometries and, more generally, incidence structures.

Nowadays, hypercompositional algebra has a variety of relationships with other fields of mathematics, such as fuzzy set theory, combinatorics, and probability, established by various research groups around the world. In addition, algebraic hyperstructures are also encountered in computer science, artificial intelligence, and physics.

This Special Issue invites submissions in hyperstructure theory, in a broad sense. Manuscripts may address theoretical aspects, applications, and related computational issues. We welcome contributions dealing with equivalence relations, semi-orderings, graphs and hypergraphs, combinatorial geometry, fuzzy sets, etc., as well as their appearance in the social, natural, and applied sciences.





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Message from the Editor-in-Chief

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