The Study of Lattice Theory and Universal Algebra

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Message from the Guest Editor

Lattice theory in the present conception was initiated by publishing Garrett Birkhoff's seminal book in 1940. Since then, it has been an extensively developed branch which is still accepting new concepts, results, and applications. In its contemporary state, there are several important applications of lattice theory, e.g., in algebraic semantics of non-classical logics. Let us remember the works of Brouwer and Heyting on pseudocomplemented and relatively pseudocomplemented lattices and semilattices for algebraization of intuitionistic logic, orthomodular lattices, and posits for the formalization of the logic of quantum mechanics, an application of lattice theory for various algebraic axiomatizations of many-valued logics such as MV algebras or residuated lattices on which fuzzy logic and several substructural logics are based. Moreover, these applications and results are being developed quickly at present, and they also influence the general theory of lattices...

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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