

Algebraic Hyperstructures and Applications

Edited by
P. Corsini,
R. Di Troia,
M. Enea and G. Ferraro
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Algebraic Hyperstructures Apps

Thomas Vougiouklis



Algebraic Hyperstructures Apps:

Algebraic Hyperstructures and Applications Piergiulio Corsini, 2004 This book is a record of the contents of the papers accepted for publication as the Proceedings of the 7th International Conference on Algebraic Hyperstructures and Applications held in Taormina Italy on June 13 19 1999 *Algebraic Hyperstructures And Applications - Proceedings Of The Fourth International Congress* Thomas Vougiouklis, 1991-04-22 Topics covered include semihypergroups hypergroups hyperrings hyperfields hypermatrices ordered hyperstructures etc related topics as join spaces cogroups polygroups and finally applications on combinatorics field theory finite geometry computer science etc *Applications of Hyperstructure Theory* P. Corsini, Violeta Leoreanu, 2003-03-31 This book presents some of the numerous applications of hyperstructures especially those that were found and studied in the last fifteen years There are applications to the following subjects 1 geometry 2 hypergraphs 3 binary relations 4 lattices 5 fuzzy sets and rough sets 6 automata 7 cryptography 8 median algebras relation algebras 9 combinatorics 10 codes 11 artificial intelligence 12 probabilities Audience Graduate students and researchers **Algebraic Hyperstructures and Applications** Piergiulio Corsini, 1997 **International Congress on Algebraic Hyperstructures and Applications ; 4**, 1990 *Hyperstructures and Superhyperstructures: Theory and Selected Applications* Takaaki Fujita, Florentin Smarandache, 2026-01-01 Hyperstructures and Superhyperstructures Theory and Selected Applications presents a comprehensive and systematic study of structural generalizations in which classical operations are extended to set valued and iterated set valued frameworks A hyperstructure relaxes traditional algebraic operations by allowing outputs to be subsets rather than single elements thereby modeling non determinism multi valued interactions and uncertainty Building on this foundation the book develops the theory of n superhyperstructures through iterated powerset constructions enabling rigorous treatment of hierarchical and multi level phenomena The volume surveys core definitions lifting principles canonical embeddings and structural correspondences across algebra discrete mathematics topology logic and applied domains It introduces and unifies concepts such as hyperalgebras hypergroups hyperfields hypergraphs superhyperuncertain sets and sheaf based superhyperstructures emphasizing their theoretical coherence and modeling power Through illustrative examples and structured generalizations the book establishes a unified set theoretic framework that connects classical structures hyperstructures and superhyperstructures offering new tools for representing higher order interactions uncertainty aware systems and complex hierarchical architectures **Fuzzy Algebraic Hyperstructures** Bijan Davvaz, Irina Cristea, 2015-01-23 This book is intended as an introduction to fuzzy algebraic hyperstructures As the first in its genre it includes a number of topics most of which reflect the authors past research and thus provides a starting point for future research directions The book is organized in five chapters The first chapter introduces readers to the basic notions of algebraic structures and hyperstructures The second covers fuzzy sets fuzzy groups and fuzzy polygroups The following two chapters are concerned with the theory of fuzzy Hv structures while the third

chapter presents the concept of fuzzy Hv subgroup of Hv groups the fourth covers the theory of fuzzy Hv ideals of Hv rings The final chapter discusses several connections between hypergroups and fuzzy sets and includes a study on the association between hypergroupoids and fuzzy sets endowed with two membership functions In addition to providing a reference guide to researchers the book is also intended as textbook for undergraduate and graduate students

Hyperstructures and Their Representations Thomas Vougiouklis,1994 **Theory and Applications of NeutroAlgebras as Generalizations of Classical Algebras** Smarandache, Florentin,Al-Tahan, Madeline,2022-04-15 Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra In all classical algebraic structures the law of compositions on a given set are well defined but this is a restrictive case because there are situations in science where a law of composition defined on a set may be only partially defined and partially undefined which we call NeutroDefined or totally undefined which we call AntiDefined Theory and Applications of

NeutroAlgebras as Generalizations of Classical Algebra introduces NeutroAlgebra an emerging field of research This book provides a comprehensive collection of original work related to NeutroAlgebra and covers topics such as image retrieval mathematical morphology and NeutroAlgebraic structure It is an essential resource for philosophers mathematicians researchers educators and students of higher education and academicians *Algebraic Hyperstructures and Applications*

Thomas Vougiouklis,1991-01-01 Discusses recent developments in semi hypergroups hypergroups hyperringes hypermatrices ordered hyperstructures join spaces cogroups polygroups and multivalued structures in 21 papers presented at a gathering of mathematicians in Xanthi Greece in June 1990 Two of the papers are in French Includes a general bibliography for the field No index Acidic paper Annotation copyrighted by Book News Inc Portland OR *13th Algebraic Hyperstructures and Its Applications Conferences [also] AHA 2017 ,2017* **AHA** Thomas Vougiouklis,1991 [Neutrosophic Sets and Systems, vol. 77/2025](#)

Florentin Smarandache,Mohamed Abdel-Basset,Maikel Leyva-Vázquez,2025-01-31 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel s dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well Neutrosophic Set and Neutrosophic Logic are generalizations of the fuzzy set and respectively fuzzy logic especially of

intuitionistic fuzzy set and respectively intuitionistic fuzzy logic In neutrosophic logic a proposition has a degree of truth T a degree of indeterminacy I and a degree of falsity F where T, I, F are standard or non standard subsets of $[0, 1]$ Neutrosophic Probability is a generalization of the classical probability and imprecise probability Neutrosophic Statistics is a generalization of the classical statistics

Algebraic Hyperstructures and Applications International Congress on Algebraic Hyperstructures and Applications, 2003

The Twelfth International Conference on Algebraic Hyperstructures and Applications (12th AHA 2014) was Held in Xanthi, Greece, from 2nd to 7th of September 2014, 2016

Mathematical Reviews, 2005

Special Issue on Algebraic Hyperstructures and Applications, 2003

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Pure Mathematics and Applications, 1992

Discussiones Mathematicae, 2006

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