

Contents

Invited lectures	9
Some connections between algebraic hyperstructures and fuzzy sets..... <i>Piergiulio Corsini (Italy)</i>	11
Hypermatrix representations	17
<i>Thomas Vougiouklis (Greece)</i>	
n-ary hyperstructures and some connections with binary relations and lattices	33
<i>Violeta Leoreanu-Fotea (Romania)</i>	
A new view of fundamental relations on hyperrings (A survey)	43
<i>Bijan Davvaz (Iran)</i>	
Infinite multiautomata with phase hypergroups of various operators	57
<i>Jan Chvalina (Czech Republic)</i>	
A survey of investigations of the Brno research group... ..	71
<i>Šárka Hošková, Jan Chvalina (Czech Republic)</i>	
Presented papers	85
Some Results on Fuzzy Hypervector Spaces	87
<i>Reza Ameri, Omid Reza Dehghan (Iran)</i>	
s_1 - H_V -Groups, s_1 -Hypergroups and the theta (∂)-operation	99
<i>Nikolaos Antampoufis (Greece)</i>	
Fuzzy Congruence Relations and Isomorphism Theorems on Hyper K - algebras	113
<i>Rajab Ali Borzooei, Mahmoud Bakhshi (Iran)</i>	
Some Properties of Fuzzy Generalized Groups	123
<i>Rajab Ali Borzooei, Mahmoud Bakhshi (Iran)</i>	
Hyperstructures of preference relations	131
<i>Jan Chvalina, Michal Novák (Czech Republic)</i>	
On the fuzzy subhypergroups of some particular complete hypergroups (II) .	141
<i>Irina Cristea (Italy)</i>	
Fuzzy H_V -substructures in a two dimensional euclidean vector space	151
<i>Achilles Dramalidis, Thomas Vougiouklis (Greece)</i>	

Hyperrings constructed by multiendomorphisms of hypergroups	161
<i>Sanja Jančić-Rašović (Montenegro)</i>	
Applications of interval-valued fuzzy sub-hypernear-rings with respect to t-norms (t-conorms)	173
<i>Osman Kazancı, Sultan Yamak (Turkey)</i>	
Spectrum of Prime Fuzzy Hyperideals	191
<i>Razieh Mahjoob, Reza Ameri (Iran)</i>	
On Join Hyperrings	203
<i>Christos G. Massouros, Gerasimos G. Massouros (Greece)</i>	
On the theory of generalized M -polysymmetric hypergroups	217
<i>Christos G. Massouros, Jean D. Mittas (Greece)</i>	
On some structures of fuzzy numbers	229
<i>Antonio Maturo (Italy)</i>	
Multiperson Decision Making, Consensus, and Associated Hyperstructures .	241
<i>Antonio Maturo, Aldo G. S. Ventre (Italy)</i>	
Identities in multialgebra theory	251
<i>Cosmin Pelea, Ioan Purdea (Romania)</i>	
Hypergroups of symmetric matrices	267
<i>Pavĺína Račková (Czech Republic)</i>	
Banach Hyperalgebras	273
<i>Ali Taghavi, Rohallah Parvinianzadeh (Iran)</i>	
On the hyperstructures with ∂ -hopes	281
<i>Thomas Vougiouklis (Greece)</i>	
Distributive Lattice and Join Space with Fuzzy Sets of Type 2	297
<i>Mohsen Asghari-Lamiri (Iran)</i>	
Generalized M -Polysymmetric Hypergroups	303
<i>Jean D. Mittas (Greece)</i>	
Index	311