

Contents

INVITED LECTURES	9
Piergiulio Corsini: <i>Some Connections between Algebraic Hyperstructures and Fuzzy Sets</i>	11
Jan Chvalina: <i>Infinite multiautomata with phase hypergroups of various operators</i>	15
Bijan Davvaz: <i>A new view of fundamental relations on hyperrings (A survey)</i>	17
Violeta Leoreanu - Fotea: <i>n-hyperstructures and their applications</i>	19
Thomas Vougiouklis: <i>On the hyperstructures called theta (∂)</i>	21
SHORT PRESENTATIONS	23
Reza Ameri, Masume Sadeghi: <i>S-Hyperactions and S-Fuzzy Hyperactions of of Semihypergroups</i>	25
Reza Ameri, Omid Reza Dehghan: <i>Some Results on Fuzzy Hypervector Spaces</i>	27
Nikolaos Antampoufis: <i>s1-H_v-Groups, s1-Hypergroups and the ∂-operation</i>	29
Mohsen Asghari - Larimi: <i>Modular lattices and Join spaces with Fuzzy sets of type 2</i>	32
Mahmoud Bakhshi, Rajab Ali Borzooei: <i>Fuzzy Congruence Relations on Some Hyperstructures</i>	34
Sadi Bayramov, Cigdem Gunduz (Aras): <i>Some Operations in the Category of Intuitionistic Fuzzy Submodules</i>	36
Rajab Ali Borzooei, Mahmoud Bakhshi: <i>Results on Ideals of Hyper BCK-algebras</i>	37
Bice Cavallo, Livia D'Apuzzo: <i>Pairwise comparisons over a linearly ordered group. A measure of consistency.</i>	39

Irina Cristea: <i>Fuzzy subhypergroups of the complete hypergroups</i>	41
Mohammad Reza Darafsheh: <i>The maximum element order in the groups related to the linear groups</i>	43
Vučić Dašić: <i>Heterogeneous hyperalgebras</i>	44
Achilles Dramalidis, Thomas Vougiouklis: <i>Fuzzy H_v-substructures in a two dimensional Euclidean vector space</i>	46
Esfandiar Eslami, Shokoofeh Ghorbani, Abbas Hasankhani: <i>Hyper MV-algebras and some related Quotients</i>	48
Habib Harizavi, Rajab Ali Borzooei: <i>Quotient Structures on Hyper BCK and K-algebras</i>	51
Hossein Hedayati: <i>Topics in k-hyperideals</i>	53
Šárka Hošková, Jan Chvalina: <i>A Survey of investigations of the Brno research group in the hyperstructure theory since the last AHA Congress</i>	54
Ali Iranmanesh, Bairamgol Niazian: <i>The relation between of divisibility of hypergroups and groups</i>	58
Sanja Jančić - Rašović: <i>Hyperrings constructed by the multiendomorphisms of hypergroups</i>	60
Osman Kazancı, Sultan Yamak: <i>Applications of interval valued t-norms (t-conorms) to fuzzy sub-hypernear-rings</i>	61
Ali Madanshekaf: <i>Some Homological Notions to Hypermodules</i>	63
Razieh Mahjoob, Reza Ameri: <i>Spectrum of Prime Fuzzy Hyperideals</i>	65
Christos G. Massouros, Gerasimos G. Massouros: <i>On Join Hyper-rings</i>	67
Christos G. Massouros, J. Mittas: <i>On the theory of generalized M-polysymmetrical hypergroups</i>	69
Antonio Maturo: <i>On some structures of fuzzy numbers</i>	71
Antonio Maturo, Aldo G. S. Ventre: <i>Multiperson decision making, consensus, and associated hyperstructures</i>	73

Michal Novák, Jan Chvalina: <i>Hyperstructures of preference relations</i>	75
Tahere Nozari, Reza Ameri: <i>A Connection Between Fuzzy Algebras and Fuzzy Multialgebras</i>	77
Cosmin Pelea: <i>Identities in multialgebra theory</i>	78
A. Taghavi, Rohallah Parvinianzadeh: <i>Banach Hyperalgebras</i>	80
Pavína Račková: <i>Hypergroups of symmetric matrices</i>	81
Stefanos Spartalis, Maria Konstantinidou - Serafimidou, Anastasia Taouktsoglou: <i>C-hypergroupoids obtained by Special Binary Relations</i>	83
Mirela Stefanescu: <i>Some properties of hyperrings and hypernear-rings</i>	86
S. Mostafa Taheri: <i>Varietal of Perfect Groups and Isomorphic Groups</i>	87
Sultan Yamak, Osman Kazancı: <i>Soft Hyperstructure</i>	88
Mohammad Mahdi Zahedi, Tahereh Roudbari, Mohammad Ali Nasr- - Azadani: <i>Review on Hyper K-algebras</i>	90
LIST OF PARTICIPANTS	93

A young person knows the rules but the old person knows the game.