

Contents

Foreword..... V

On the quantifiers of the intuitionistic fuzzy logic..... 1
K.T. Atanassov

On the intuitionistic fuzzy implications $\rightarrow'_{@}$ and $\rightarrow''_{@}$ 9
L. Atanassova

Principal Component Analysis and Factor Analysis
for IF data sets 17
R. Bartková

Intuitionistic Fuzzy Preference Structures..... 31
C. Franco, J. T. Rodriguez, P. Melo-Pinto, J. Montero

Semigroups and semirings of Atanassov's intuitionistic
fuzzy relations 49
J. Drewniak

On a class of operations on interval-valued fuzzy sets 67
P. Drygaś

Aggregation of fuzzy equivalences 85
U. Dudziak, A. Król

Some notes about boundaries on IF-sets 105
A. Michalíková

Some connections among interval-valued fuzzy relations 113
B. Pękala

<i>On the Principal Component Analysis and the Correlation Coefficient</i>	<i>129</i>
B. Riečan	
<i>Metasets, Certainty and Uncertainty</i>	<i>139</i>
B. Starosta, W. Kosiński	
<i>Intelligent Counting – Connections with Classification Issues</i>	<i>167</i>
M. Wygralak	