

Table of Contents

Keynote and Invited Talks

Talking with Uncertainty	1
<i>Toyooki Nishida</i>	
Introduction to the <i>ER</i> Rule for Evidence Combination	7
<i>Jian-Bo Yang and Dong-Ling Xu</i>	
Theories and Approaches to Treat Incomparability	16
<i>Yang Xu and Jun Liu</i>	
Knowledge Science – Modeling the Knowledge Creation Process	18
<i>Yoshiteru Nakamori</i>	
Two Classes of Algorithms for Data Clustering	19
<i>Sadaaki Miyamoto</i>	
Fusing Conceptual Graphs and Fuzzy Logic: Towards the Structure and Expressiveness of Natural Language	31
<i>Tru H. Cao</i>	

Contributed Papers

A MMORPG Decision-Making Model Based on Persuasive Reciprocity.....	33
<i>Helio C. Silva Neto, Leonardo F.B.S. Carvalho, Fábio Paraguaçu, and Roberta V.V. Lopes</i>	
A Computing with Words Based Approach to Multicriteria Energy Planning.....	48
<i>Hong-Bin Yan, Tiejun Ma, Yoshiteru Nakamori, and Van-Nam Huynh</i>	
Bipolar Semantic Cells: An Interval Model for Linguistic Labels.....	60
<i>Yongchuan Tang and Jonathan Lawry</i>	
A Fuzzy Rule-Based Classification System Using Interval Type-2 Fuzzy Sets	72
<i>Min Tang, Xia Chen, Weidong Hu, and Wenzian Yu</i>	
Rough Approximations in General Approximation Spaces	81
<i>Keyun Qin, Zheng Pei, and Yang Xu</i>	
Multi-agents and Non-classical Logic Systems.....	90
<i>Chenfang Zhao and Zheng Pei</i>	

An Information Processing Model for Emotional Agents Based on the OCC Model and the Mood Congruent Effect	98
<i>Chao Ma, Guanghong Gong, and Yaofei Ma</i>	
On Distributive Equations of Implications and Contrapositive Symmetry Equations of Implications Based on a Continuous t -Norm ...	109
<i>Feng Qin and Meihua Lu</i>	
A Novel Cultural Algorithm Based on Differential Evolution for Hybrid Flow Shop Scheduling Problems with Fuzzy Processing Time	121
<i>Qun Niu, Tingting Zeng, and Zhuo Zhou</i>	
An Over-Relaxed (A, η, m) -Proximal Point Algorithm for System of Nonlinear Fuzzy-Set Valued Operator Equation Frameworks and Fixed Point Problems	133
<i>Heng-you Lan, Xiao Wang, Tingjian Xiong, and Yumin Xiang</i>	
Reliability-Based Route Optimization of a Transportation Network with Random Arc Capacities and Time Threshold	143
<i>Tao Zhang, Bo Guo, and Yuejin Tan</i>	
Modeling Multilocation Transshipment with Application of Stochastic Programming Approach	157
<i>Jingxian Chen and Jianxin Lu</i>	
Identifying a Non-normal Evolving Stochastic Process Based upon the Genetic Methods.....	168
<i>Kangrong Tan, Meifen Chu, and Shozo Tokinaga</i>	
Clustering Based Bagging Algorithm on Imbalanced Data Sets.....	179
<i>Xiao-Yan Sun, Hua-Xiang Zhang, and Zhi-Chao Wang</i>	
Agglomerative Hierarchical Clustering Using Asymmetric Similarity Based on a Bag Model and Application to Information on the Web.....	187
<i>Satoshi Takumi and Sadaaki Miyamoto</i>	
Applying Agglomerative Fuzzy K-Means to Reduce the Cost of Telephone Marketing	197
<i>Ming-Jia Hsu, Ping-Yu Hsu, and Bayarmaa Dashnyam</i>	
Kansei Information Transfer Technology	209
<i>Yoshiteru Nakamori</i>	
Combining Binary Classifiers with Imprecise Probabilities	219
<i>Sébastien Destercke and Benjamin Quost</i>	
Applying Hierarchical Information with Learning Approach for Activity Recognition	231
<i>Hoai-Viet To, Hoai-Bac Le, and Mitsuru Ikeda</i>	

Table of Contents	XI
Querying in Spaces of Music Information..... <i>Wladyslaw Homenda and Mariusz Rybnik</i>	243
Automatic Music Transcription: An Experiment with Simple Tools <i>Wladyslaw Homenda</i>	256
Author Index	269