

MDAI 2009 Program --- November 30 (Monday), 2009

8:45 9:20	Registration (in front of Room 301: morning in front of Room 311: afternoon)	
9:20 9:30	Room 301	
9:30 10:45	Opening Session (10min) Welcome Address by Professor Masahiro Inuiguchi, Professor Vicenc Torra & Dr. Yasuo Narukawa	
9:30 10:45	Plenary Talk 1 (75min) Prof. Hiroyuki Tamura: "Modeling Ambiguity Averse Behavior of Individual Decision Making: Prospect Theory under Uncertainty" (Chair: Prof. Masahiro Inuiguchi)	
10:45 11:00	Coffee Break (15min)	
11:00 12:15	Plenary Talk 2 (75min) Prof. Roman Slowinski: "Interactive Robust Multiobjective Optimization Driven by Decision Rule Preference Model" (Chair: Prof. Sadaaki Miyamoto)	
12:15 13:20	Lunch (Use the Tickets) (65min)	
13:20 15:30	Room 311A Game Theory (Prof. Yuji Yoshida)	Room 311B Machine Learning (Chair: Prof. Hiroaki Ishii)
13:20 13:40	"Toward the Theory of Cooperative Games under Incomplete Information" S. Masuya, M. Inuiguchi	"Dynamic Neighborhood Selection for Nonlinear Dimensionality Reduction" Y. Zhan, J. Yin, J. Long
13:40 14:00	"A Formal Theory of Cooperative TU-games" M. Dautas, E. Martin-Dorel, A. Truffert, M. Ventou	"A Consistency-Constrained Feature Selection Algorithm with the Steepest Descent Method" K. Shin, X. M. Xu
14:00 14:20	"Decision Making in Voting Games: an Insight into Theory and Practice" W. Homenda	"A Heuristic Algorithm for Attribute Reduction Based on Discernibility and Equivalence by Attributes" Y. Kudo, T. Murai
14:20 14:40	"Comparison of Data Structures for Competing Formal Concepts" P. Krajca, V. Vychodil	"Multiobjective Multiclass Soft-Margin Support Vector Machine and its Solving Technique Based on Benson's Method" K. Tatsumi, R. Kawachi, K. Hayashida, T. Tanino
14:40 15:00	"The Functionality-Security-Privacy Game" J. Domingo-Ferrer	"Visualization Can Improve Multiple Decision Table Classifiers" K. Haraguchi, S.-H. Hong, H. Nagamochi
15:00 15:20	Coffee Break (20min)	
15:20 17:00	Room 311A Fuzzy Measures and Decision Making (Chair: Prof. Van-Nam Huynh)	Room 311B Computational Intelligence (Chair: Prof. Jun Long)
15:20 15:40	"A Lyapunov-type Theorem for Nonadditive Vector Measures" N. Sagara	"Situation Recognition and Hypothesis Management using Petri Nets" A. Dahlbom, L. Niklasson, G. Falkman
15:40 16:00	"On m-Separable Fuzzy Measures" Y. Narukawa, V. Torra	"On Exclusive Usage of General-Purpose Machines for Semiconductor Manufacturing" Y. Shiraki, Y. Murakami, M. Inuiguchi, K. Masunaga, S. Kurose
16:00 16:20	"Using Conditional Random Fields for Decision-Theoretic Planning" P. Ardis, C. M. Brown	"N-gram and TF-IDF Model for Masquerade Detection Using UNIX Commands" D. Geng, T. Odaka, J. Kuroiwa, H. Ogura
16:20 16:40	"Interactive Decision Making for Hierarchical Multiobjective Linear Programming Problems" H. Yano	"Variable Precision Rough Set Model in Incomplete Information Tables" Y. Kusunoki, M. Inuiguchi
16:40 17:00	"A Perception-Based Portfolio under Uncertainty: Minimization of Average Rates of Falling" Y. Yoshida	"A Variable Precision Dominance-based Rough Set Approach to Multiple Decision Tables" S. Yamamoto, M. Inuiguchi
18:00 	Reception Rooms 404, 405	

MDAI 2009 Program --- December 1 (Tuesday), 2009

8:30 	Registration (in front of Room 301: morning in front of Room 311: afternoon)	
9:00 10:15	Room 301 Plenary Talk 3 (75min) Prof. Weldon A. Lodwick: "The Relationship Between Fuzzy/Possibilistic Optimization and Interval Analysis" <small>(Chair: Prof. Yuji Yoshida)</small>	
10:15 10:35	Coffee Break (20min)	
10:35 11:50	Room 301 Plenary Talk 4 (75min) Prof. Lluis. Godo: "g-BDI: A Graded Intensional Agent Model for Practical Reasoning" <small>(Chair: Dr. Yasuo Narukawa)</small>	
11:50 13:00	Lunch (Use the Tickets) (70min)	
13:00 15:00	Room 311A Decision Making (Prof. Marc Daumas)	Room 311B Clustering (Chair: Prof. Tomoharu Nakashima)
13:00 13:20	"A Differential Evolution Based Time-Frequency Atom Decomposition for Analyzing Computer Signals" G. Zhang, J. Cheng	"PCA-guided k-Means with Variable Weighting and Its Application to Document Clustering" Honda, A. Notsu, H. Ichihashi
13:20 13:40	"Combining Various Methods of Automated User Decision and Preferences Modelling" A. Eckhardt, P. Vojtas	"On L1-Norm Based Fuzzy c-Means Clustering with Penalty Term" T. Miyamoto, Y. Endo, Y. Hamasuna, S. Miyamoto
13:40 14:00	"A Novel Method for Multibiometric Fusion Based on FAR and FRR" Y. Li, J. Yin, J. Long, E. Zhu	"Partial Symbol Ordering Distance" J. Nin, J. Herranz
14:00 14:20	"Performance Evaluation of TEWA Systems for Improved Decision Support" F. Johansson, G. Falkman	"Fuzzy Classification Function of Tolerant Fuzzy c-Means Clustering" Y. Hamasuna, Y. Endo, S. Miyamoto
14:20 14:40	"Evaluation Based on Pessimistic Efficiency in Interval DEA" T. Entani	"On Hierarchical Clustering for Data with Tolerance" Y. Endo, Y. Hamasuna, A. Tagaya
14:40 15:00	"On Possible Rules and Apriori Algorithm in Non-deterministic Information Systems" Hiroshi Sakai, Michinori Nakata	"Refinement Properties in Agglomerative Hierarchical Clustering" S. Miyamoto
15:00 15:20	Coffee Break (20min)	
15:20 17:00	Room 311A Computational Intelligence (Prof. Yasuo Kudo)	Room 311B Clustering (Chair: Prof. Tomoharu Nakashima)
15:20 15:40	"An Approach for Increased Supply Chain Security by Using Automatic Detection of Anomalous Vehicle Behaviour" C. Brax, L. Niklasson	"On Semi-Supervised Clustering with Pairwise Constraints" S. Miyamoto, M. Yamazaki, A. Terami
15:40 16:00	"Carbon Footprint Modeling from Raw Material Supply, Production, Consumption and Waste Generation" H. Fujita, K. Okuhara, H. Ishii, C. S. Soon, Cahyadi, Y. Jian	"Some Pairwise Constrained Semi-Supervised Fuzzy c-Means Clustering Algorithms" Y. Kanzawa, Y. Endo, S. Miyamoto
16:00 16:20	"A Hybrid Algorithm Based on Tabu Search and Ant Colony Optimization for k-Minimum Spanning Tree Problems" H. Katagiri, T. Hayashida, I. Nishizaki, J. Ishimatsu	"Kernel Functions Derived from Fuzzy Clustering" S. Miyamoto, J. S. Hwang
16:20 16:40	"Tabu Programming: A Machine Learning Tool Using Adaptive Memory Programming" E. Mabrouk, A.-R. Hedar, M. Fukushima	"A Measuring and Analysis Method of Human Action on Dynamic Image Using Motion Region in Real Time" M. Takai
16:40 17:00	"An Optimization Method of Large Scale Stock Layout with Guillotine Cutting" Y. Zhang, H. Ogura, X. Ma, J. Kuroiwa, T. Odaka	"Web Page Clustering Using Social Bookmarking Data with Latent Dirichlet Allocation" H. Yanagimoto, M. Yoshioka, S. Omatu
18:30 	Banquet at Gril Awaji Yume Kobo	

MDAI 2009 Program --- December 3 (Wednesday), 2009

8:30 	Registration in the front of Room 301	
9:00 10:15	Room 301A Plenary Talk 5 (75min) Prof. Sadaaki Miyamoto: "Generalized Bags, Bag Relations, and Applications to Data Analysis and Decision Making" (Chair: Prof. Sadaaki Miyamoto)	
10:15 10:30	Coffee Break (15min)	
11:00 12:15	Room 301A Decision Making (Chair: Prof. Peter Vojtas)	Room 301B Machine Learning (Chair: Prof. Keiji Tatsumi)
11:00 11:25	"Discounting and Combination Scheme in Evidence Theory for Dealing with Conflict in Information Fusion" V.-N. Huynh	"Fuzzy c-Regression Model for Data with Tolerance" K. Kurihara, Y. Endo, Y. Hamasuna, S. Miyamoto
11:25 11:50	"Stochastic Facility Construction Problem with Preference of Candidate Sites" H. Ishii, Y. L. Lee, K.-Y. Yeh	"Hybrid Fuzzy Classification for Gene Expression Analysis" G. Schaefer, T. Nakashima
11:25 11:50	"A Consensus Reaching Model for Web 2.0 Communities" S. Alonso, I. J. Perez, F. J. Cabrerizo, J. Francisco, E. Herrera-Viedma	"On-demand Classifier with Lazy Learning" Y. Matsumoto, D. Katayama, M. Inuiguchi
11:50 12:15	"Studies on the Reverse Order Problem of Grey Incidence Analysis" B. Li, M. Inuiguchi	"Quantitative Association Rule Mining by Dimension Reduction Method" P. Kumar, V. S. Ananthanarayana
9:20 9:30	Room 301A Closing Session (10min)	
12:00 18:00	Excursion (Only Registered Participants) Meet in the front of Room 301	