Program of the MDAI 2007 Conference

Thursday, 16th August
12:30 Registration
13:30 Opening Session
- Yuji Yoshida, General Chair
- Vicenç Torra, PC Chair
- Yasuo Narukawa, PC Chair
14:00 Plenary talk
- E. E. Kerre (U. Gent, Belgium), An Overview of Fuzzy Relational Calculus and Its Applications
15:00 Coffee break
15:20 Session T1-A: Clustering - I
- Fuzzy c-Means for Data with Tolerance Defined as Hyper-rectangles, Y. Hasegawa, Y. Endo, Y. Hamasuna, S. Miyamoto
- Kernel Functions Based on Fuzzy Neighbors and Agglomerative Clustering, S. Miyamoto, Y. Kawasasaki
- c-Means Clustering on the Multinomial Manifold, R. Inokuchi, S. Miyamoto
15:20 Session T1-B: Data Mining and Knowledge Discovery - I
- On a Rough Sets Based Tool for Generating Rules from Data with Categorical and Numerical Values, H. Sakai, K. Koba, R. Ishibashi, M. Nakata
- Applying Rough Sets to Information Tables Containing Probabilistic Values, M. Nakata, H. Sakai
- A Study of Emotion Recognition and Its Applications, W.-J. Yoon, K.-S. Park
- Mining Frequent Diamond Episodes from Event Sequences, T. Kato, K. Hirata, M. Haruo
16:40 Break
16:50 Session T2-A: Clustering - II
- Formulation of Fuzzy c-Means Clustering Using Calculus of Variations, S. Miyamoto
- CWC: A Clustering-based Feature Weighting Approach for Text Classification, L. Zhu, J. Guan, S. Zhou
- Algorithms for Sequential Extraction of Clusters by Possibilistic Clustering, S. Miyamoto, Y. Kuroda
16:50 Session T2-B: Bioinformatics
- Classification of Normal and Tumor Tissues Using Geometric Representation of Gene Expression Microarray Data, S. Kim, D. Shin
- Learning Dynamic Bayesian Networks from cDNA Microarray Gene Expression Data, A. Shermin, M. A. Orgun
18:15 Kokura Gion Festival (welcome ceremony)

Friday, 17th August
9:00 Plenary talk
- S. Iwamoto (U. Kyushu, Japan), The Golden Quadruplet: Optimization-Inequality-Identity-Operator
10:00 Coffee break
10:20 Session F1-A: Decision Making - I
- Weighting Individual Opinions in Group Decision Making, J. L. García-Lapresta
- Research on Next Generation Grids using a Fuzzy Assessment Method, C. Ye, F. Xiong, Q. Luo
- Combining Prioritized Decisions in Classification, Y. Bi
- A Fuzzy Target Based Model for Multi-Criteria Decision Making, H. Yen, V.-N. Huynh, Y. Nakamori
- Modeling of Regret and Rejoicing Emotions on Multicriteria Decision Analysis, J. C. Levy-Lopez
10:20 Session F1-B: Applications - I
- Robust Parameter Decision-Making Based on Multidisciplinary Knowledge Model, J. Hu, Y. Peng, G. Xiong
- Embedding Deductive Capability in Knowledge Structure Diagrams, H. F. Lai
- Inspection of the Effect of Route Information in Traffic Control by Multiagent Simulation, K. Harada, M. Haro, K. Hirata
12:00 Lunch time (in the university cafeteria)
13:10 Session F2-A: Vision
- Automatic Segmentation of Neoplastic Hepatic Disease Symptoms in CT Images, M. Cichockiwal, M. R. Ogila
- Real Time Face Recognition System using PCA and DDT, M.-A. Kang, J.-M. Kim
13:10 Session F2-B: Non Additive Measure and Concept Lattices - I
- Multidimensional Fuzzy Integrals, Y. Narukawa, V. Torra
- A Version of Lebesgue Decomposition Theorem for Non-additive Measures, J. Li, M. Yasuda, J. Li
14:10 Break
14:20 Session F3-A: Robotics
- Multi-Robot Tracking using the Particle Filter and SOM in Robotic Space with Network Camera, J. Jin, H. Kim, J. M. Lee
- An Investigation on Indoor Human's Behavior for Robot Application, S.-J. Youn, K.-W. Oh
14:20 Session F3-B: Non Additive Measure and Concept Lattices - II
- Lindig's Algorithm for Concept Lattices over Graded Attributes, R. Belohlavek, B. De Baets, J. Ov attacked, V. Vychodil
- Trees in Concept Lattices, B. De Baets, J. Ov attacked, V. Vychodil
- An Axiomization of Shapley Value of Games on Set Systems, A. Honda, Y. Okazaki
15:20 Coffee Break
16:00 Session F4-A: Decision Making - II
- Static and Dynamic Coalition Formation in Group-Choice Decision Making, T. Wayama
- An Aggregation of Agents, Roles and Coalition Formation to Support Collaborative and Dynamic Organizations, N. Honari, B. H. Far
- Group Decision Making: From Consistency to Consensus, F. Chiclana, F. Mata, S. Alonso, E. Herrera-Viedma, and J. Martinez
16:00 Session F4-B: Soft Computing - I
- Modelling and Simulation of Fuzzy-Rule Based Systems, W. Xing
- An Evolutionary Algorithm with Diversified Crossover Operator for the Heterogeneous Probabilistic TSP, Y.-H. Liu, R.-C. Jou, C.-C. Wang, C.-S. Chiou
- Constrained Problem Optimization Based on Self-adaptive Particle Swarm Optimization with Novel Penalty Mechanisms, D. Yang, J. Chen, N. Matsumoto
17:20 Adjourn
18:30 Conference Dinner

Saturday, 18th August
9:00 Plenary talk
- H. Bannai (U. Kyushu, Japan), Algorithms for String Pattern Discovery
10:00 Coffee break
10:20 Session S1-A: Applications - II
- Fuzzy Extension of Estimations with Randomness: The Perception-based Approach, Y. Yoshida
- Resolution of Singularities and Stochastic Completeness of Complete Bipartite Graph-Type Spin Model in Bayesian Estimation, M. Aoyagi, S. Watanabe
- A Public-Key Protocol for Social Networks with Private Relationships, J. Domingo-Ferrer
- An Incentive-Based System for Information Providers Over Peer-to-Peer Mobile Ad-Hoc Networks, J. Castellá-Rocca, V. Daza, J. Domingo-Ferrer, J. A. Manjón, F. Sebè, A. Viejo
- An Adaptive Fault Tolerance Running on Middleware for Situation-Aware, E. N. Ko
10:20 Session S1-B: Soft Computing - II
- Boltzmann Machine Incorporated Hybrid Neural Fuzzy System for Hardware/Software Partitioning in Embedded System Design, Y. Huang, Y.S. Kim
- Artificial Bee Colony (ABC) Optimization Algorithm for Training Feed-Forward Neural Networks, D. Karaboga, B. Akay, C. Ozturk
- Performance Enhancement of RBF Networks in Classification by Removing Outliners in the Training Phase, T. Huynh, N. H. Vo, M.-T. T. Hoang, Y. Won
12:00 Lunch time (in the university cafeteria)
13:10 Session S2-A: Decision Making - III
- Behavioral Analysis in Decision Making using Multiagent Information with the Fuzzy Target Based Decision Model, A. Hiramatsu, V.-N. Huynh, Y. Nakamori
- Evolving Coalitions of Task-Oriented Agents via Genetic Algorithms to Foster Self-Organization in Digital Business Ecosystems, V. Georgescu
- An Active Learning Method Based on Most Possible Misclassification Sampling Using Committee, J. Long, J. Yim, E. Zhu
- Modeling Decisions for the Time-Dependent Optimal Lane Configuration Policy with Queuing Theory and Mathematical Programming, S. Kim
13:10 Session S2-B: Natural Language
- Error Detection and Correction Based on Chinese Phonic Alphabet in Chinese Text, C.-M. Huang, M.-C. Wu, C.-C. Chang
- Towards Automation of Data Understanding: Integration of Syntax and Semantics into Granular Structures of Data, W. Homenda
- Construction of News Knowledge Expression by Applying Topic Maps Theory and Hierarchical Display Structure, C.-M. Huang, C.-F. Liu
14:40 Closing Session