

IEEE GrC 2014 Technical Session Program

(Note: Presentation of each paper is 20 minutes including discussion)

The 2nd day: October 23 (Thursday), 2014

13:00--15:00

Session Room 1

SS3: Flexible Data Analysis with Soft Computing Methods

Organizer: Prof. Yasunori Endo

Chair: Dr. Yukihiro Hamasuna

(1) G272:

Keisuke Washimi, Masahiro Inuiguchi, and Eiji Sekiya,

Supplementary Rules for MLEM2 Decision Rules and Their Usefulness in Classification Problems

(2) G275:

Yoshifumi Kusunoki and Tetsuzo Tanino,

Boolean Kernels and Clustering with Pairwise Constraints

(3) G268:

Katsuhiko Honda, Shunnya Oshio, and Akira Notsu,

Item Membership Fuzzification in Fuzzy Co-clustering Based on Multinomial Mixture Concept

(4) G273:

Akira Sugawara, Naohiko Kinoshita, and Yasunori Endo,

On Linguistic-based Clustering

(5) G267:

Yuchi Kanzawa,

On a Maximizing Model of Spherical Bezdek-Type Possibilistic c-Means and Fuzzy Multi-medoids Clustering

Session Room 2

SS4: Intelligent & Granular Computing meets Cognitive Computing

Organizer: Professors Shusaku Tsumoto and Kazunori Fujimoto

Chair: Prof. Shusaku Tsumoto

(1) G293:

Shusaku Tsumoto and Shoji Hirano,

Integration of Consumer Healthcare Data and Electronic Medical Records for Chronic Disease Management

(2) G290:

Hiroshi Nakajima, Naoki Tsuchiya, and Toshikazu Shiga,

Systems Healthcare - the Importance of Lifestyle Modification

(3) G289:

Chengzhu Yin, Hiroshi Ishikawa, and Yasufumi Takama,

Proposal of Time Series Data Retrieval with User Feedback

(4) G292:

Andrzej Janusz and Marcin Szczuka,

Assessment of Data Granulations in Context of Feature Extraction Problem

(5) G291:

Sinh Hoa Nguyen, Wojciech Swieboda, and Hung Son Nguyen,

On Semantic Evaluation of Text Clustering Algorithms

(6) G288:

Kazunori Fujimoto,

Differentiating Superlative-type eWOM Messages to Derive Potency-magnitude Relations Based on Inference Space Model

Session Room 3

Rough Sets and Granular Computing 2

Chair: Dr. Piotr Synak

(1) G255:

Piotr Synak and Dominik Ślęzak,

Complexity Aspects of Multi-Machine Aggregations in a Rough-Granular Computation Framework

(2) G209:

Patrick G. Clark and Jerzy W. Grzymala-Busse,

Mining Incomplete Data with Lost Values and Attribute-Concept Values

(3) G238:

Tian Yang and Xiuhua Wu,

Dimensionality Reduction of Hypergraph Information System

(4) G254:

Yongsheng Wang, Xuefeng Zheng, and Yanfeng Suo,

A Dynamic Rule Extraction Based on Information Granularity Model for Complete Data

(5) G243:

Changyou Guo and Xuefeng Zheng,

Feature Subset Selection Approach Based on Fuzzy Rough Set for High-dimensional Data

(6) G283:

Takehiro Tanaka, Tetsuya Murai, Yasuo Kudo, and Seiki Akama,

Rough Sets in Crisp and Fuzzy Granular Hierarchical Structures

Conference Hall

Tutorials

(1) Professor Gang Xie,

Granular Computing Theory and Its Application

(2) Dr. Zehua Chen ,

Binary Granular Computing

(3) Dr. Jun Xie,

Covering-based Granular Computing Model

15:20--17:20

Session Room 1

SS3: Flexible Data Analysis with Soft Computing Methods

Organizer: Prof. Yasunori Endo

Chair: Dr. Yoshifumi Kusunoki

(1) G269:

Zhang Canlun and Sadaaki Miyamoto,

Text Clustering Using Fuzzy Neighborhood and Evaluation of Clusters

(2) G270:

So Miyahara and Sadaaki Miyamoto,

A Family of Algorithms Using Spectral Clustering and DBSCAN

(3) G271:

Yusuke Tamura and Sadaaki Miyamoto,

A Method of Two Stage Clustering Using Agglomerative Hierarchical Algorithms with One-Pass k -Means++ or k -Median++

(4) G274:

Yukihiro Hamasuna and Yasunori Endo,

On New Sequential Hard c -Means and Its Kernelization

Session Room 2

Fuzzy Systems and Decision Tree Methods

Chair: Dr. Junji Nishino

(1) G246:

Junji Nishino,

KonohenFuzzy: A Sample Points Based Computational Model for Multi-dimensional Fuzzy Set

(2) G253:

Hisayuki Sasaoka,

Evaluation of Hetero Sensitivity of Pheromone with Ant Colony Optimization in RoboCup Rescue Simulation System

(3) G228:

Ray-Ming Chen,

Subjective Characterization of Fuzzy Target Sets Based on a Fuzzy Universe

(4) G205:

Mohammad Azad and Mikhail Moshkov,

Minimization of Decision Tree Depth for Multi-label Decision Tables

(5) G227:

Shahid Hussain,

Greedy Heuristics for Minimization of Number of Terminal Nodes in Decision Trees

Session Room 3

Clustering and Recommendation Systems

Chair: Dr. Fan Min

(1) G217:

Hong Song, Qian Zhang, Feifei Sun, Jiandong Wang, Quansheng Wang, Jingdan Qiu, and Deqiang Kou,

Breast Tissue Segmentation on MR Images Using KFCM with Spatial Constraints

(2) G220:

Yan Xu,

Application of Knowledge Gain on Multi-Type Feature Space in Microblog User Classification

(3) G213:

Hengru Zhang, Fan Min, and Ben-Wen Zhang,

Interactive Hybrid Recommendation with Granule Selection

(4) G232:

Wei Guo,

A Study on Evaluation Methods for Personalized Recommendation of Traditional Crafts

Conference Hall

Tutorial

Professors Marcin Szczuka and Andrzej Janusz,

Weighting Rough versus Soft in Granule Construction