Wednesday, October 18\textsuperscript{th}

09:00 – 09:30 Opening

09:30 – 10:30 Plenary – Prof. Hiroshi Sakamoto
Chair: Makoto Ohki

Stream Data Compression and Its Applications

10:30 – 11:00 Coffee

11:00 – 12:00 Session: Aggregation
Chair: Simon James

Comparison of risk averse utility functions on two-dimensional regions
Yuji Yoshida

Symmetrization methods for aggregation functions
Radko Mesiar, Andrea Stupnanova

Comparison among several parameter-free interval weight estimation methods from a crisp pairwise comparison matrix
Masahiro Inuiguchi, Shigeaki Innan

12:00 – 13:00 Lunch

13:00 – 13:30 Plenary - Prof. Guillermo Navarro-Arribas
Chair: Vicenç Torra

Provenance and privacy

13:30 – 14:30 Session: Privacy and Security
Chair: Guillermo Navarro-Arribas

Differentially Private Data Sets Based on Microaggregation and Record Perturbation
Jordi Soria-Comas and Josep Domingo-Ferrer

A Methodology to Compare Anonymization Methods Regarding Their Risk-Utility Trade-Off
Josep Domingo-Ferrer, Sara Ricci, Jordi Soria-Comas

Session-Based Network Intrusion Detection Using a Deep Learning Architecture
Yang Yu, Jun Long, Zhiping Cai

14:30 – 15:00 Coffee

15:00 – 16:00 Session: Clustering I
Chair: Michael Mayo

An Adaptation of the ML-kNN algorithm to predict the number of classes in Hierarchical Multi-Label Classification
Thissiany Beatriz Almeida, Helyane Bronski Borges

On Fuzzy Clustering for Categorical Multivariate Data induced by Polya Mixture Models
Yuchi Kanzawa

Comparison of Vectorial and Spherical Methods in Fuzzy Clustering-based Classifier
Masayuki Higashi and Yuchi Kanzawa

Social Program: Cruise and Reception

16:40 Departure from Kyushu Institute of Technology by Bus
17:05 Arrival at Kokura Ferry Landing to get a boat
17:40 Departure from Kokura Ferry Landing for Night Cruise
(note: Please do not take another boat departing at 17:30!!)
18:50 Approx. Arrival at Mojiko Pier and walk to the restaurant for dinner
19:00 – 21:00 Dinner at The MONTON TERRACE
21:00 Departure to Kokura Station by microbus
Thursday, October 19th

09:30 – 10:30 Plenary – Prof. Ehud Lehrer
Chair: Aoi Honda
Integration of non-additive probabilities: aggregation when information is incomplete

10:30 – 11:00 Coffee

11:00 – 12:00 Session: Fuzzy Measures I / Applications I

Session A: Fuzzy Measures I
Chair: Katsushiige Fujimoto
Event-based transformations of capacities
Surajit Borkotokey, Radko Mesiar, Jun Li
Pan-integrals based on optimal measures
Jun Li, Yao Ouyang, Minhao Yu
Orness and cardinality indices for averaging inclusion-exclusion integrals
Aoi Honda, Simon James, Sutharshan Rajasegarar

Session B: Applications I
Chair: Jun Long
A Hybrid Model of ARIMA and ANN with Discrete Wavelet Transform for Time Series Forecasting
Warut Pannakkong and Van-Nam Huynh
Novel hybrid model for activity recognition
Hela Sfar, Amel Bouzeghoub, Nathan Raomly, Jérôme Boudy
Constructing Document Vectors using Kernel Density Estimates
Michael Mayo, Sean Goltz

12:00 – 13:00 Lunch
13:00 – 14:00 Session: Applications II
Chair: Masahiro Inuiguchi
On Cell Detection System with User Interaction
Yoshitaka Maeda, Yasunori Endo, Sho Sanami
A Fuzzy Colour Model Sensitive to the Context: Study Cases using PRAGR and Logics
Zoe Falomir, Luis Gonzalez-Abril
Two-level Simple Recourse Programming Problems with Discrete Random Variables
Hitoshi Yano, Ichiro Nishizaki, Kota Matsui

14:00 – 15:00 Session: Applications III
Chair: Yuchi Kanzawa
Joint Subjective Opinions
Magdalena Ivanovska, Audun Jøsang, Jie Zhang, Shuo Chen
A relative evaluation method to check order relations using quicksort algorithm
Taiki Nishijima, Aoi Honda, Makoto Ohki
Fuzzy meets privacy
Vicenç Torra, Daniel Abril, Guillermo Navarro-Arribas

15:00 – 15:30 Coffee

15:30 – 16:30 Session: Clustering II / Applications IV
Session A: Clustering II
Chair: Jordi Soria-Comas
Antlion clustering: an aggregation method for vector data
Yuki Toyosaka, Naoki Tamura, Ryoji Fukuda
Comparison of Fuzzy Co-Clustering Methods in Collaborative Filtering-based Recommender System
Tadafumi Kondo and Yuchi Kanzawa
On Fuzzified Even-sized Clustering Based on Optimization
Kei KITAJIMA, Yasunori ENDO, Yukihiro HAMASUNA

Session B: Applications IV
Chair: Zoe Falomir
On Kernel Switching Fuzzy c-Regression
Yusuke Oi, Yasunori Endo
Using Swarm Optimization To Enhance Autoencoder's Images
Maisa Daoud, Michael Mayo

Social Program: Conference Dinner
17:10 Departure from Kyushu Institute of Technology on foot
17:30 – 18:00 Viewing and group photo
18:30 – 20:30 Banquet at West Japan Industry Club
Friday, October 20th

09:00 – 10:00 Plenary – Prof. Masaaki Nagahara
Chair: Sozo Inoue
    Sparsity methods for estimation and control
10:00 – 10:30 Coffee

10:30 – 11:30 Session: Fuzzy measures II and clustering III
Chair: Yuji Yoshida
On Edge Penalty Based Hard and Fuzzy c-Medoids for Uncertain Networks
    Yukihiro HAMASUNA, Yasunori ENDO
L_1-space for Sugeno integral
    Aoi Honda, Yoshiaki Okazaki
Distances and entropies
    Vicenç Torra, Yasuo Narukawa
11:30 – 12:00 Plenary – Prof. Michio Sugeno
Chair: Yasuo Narukawa
    A Step toward Nonlinear Statistics
12:00 Closing
12:15 – 13:00 Lunch

Social Program: Excursion
13:30 Departure from Kyushu Institute of Technology by bus
13:50 – 15:15 Kokura Castle
15:30 – 16:50 TOTO Museum
17:10 Arrival at Kokura station