

Date: Tuesday, 03/Sept/2024

9:15am - 10:10am	Plenary 1: Plenary Speaker Ingrid Van Keilegom
10:10am - 10:35am	Coffee Break 1: Coffee Break
10:35am - 12:15pm	Invited Session 1: Probability Theory Without Probability Measures Session Chair: Pedro Terán
10:35am - 12:15pm	Invited Session 2: Classification and Clustering with Copulas Session Chair: Fabrizio Durante
12:15pm - 1:30pm	Lunch 1: Lunch in the canteen
1:15pm - 3:15pm	Contributed Session 1: Fuzzy Theory and Applications
1:35pm - 3:15pm	Contributed Session 2: Dependence Modeling I
3:15pm - 3:35pm	Coffee Break 2: Coffee Break
3:35pm - 4:50pm	Invited Session 3: Dependence Uncertainty Session Chair: Alfred Müller
3:35pm - 4:50pm	Invited Session 4: Machine Learning and Decision Making Under Weakly Structured Information Session Chair: Thomas Augustin Session Chair: Christoph Jansen
4:50pm - 5:05pm	Group photo: Group photo
5:05pm - 6:00pm	Plenary 2: Plenary Speaker Siegfried Hörmann

Date: Wednesday, 04/Sept/2024

9:00am - 9:55am	Plenary 3: Plenary Speaker Steven Vanduffel
9:55am - 10:20am	Coffee Break 3: Coffee Break
10:20am - 12:25pm	Invited Session 5: Optimal Transport for Statistics and Machine Learning Session Chair: Johannes Wiesel
10:20am - 12:25pm	Invited Session 6: Theoretical and Applied Aspects of Imprecise Probabilities Session Chair: Enrique Miranda Session Chair: Arthur Van Camp
12:25pm - 1:30pm	Lunch 2: Lunch in the canteen
1:30pm - 2:50pm	Contributed Session 3: Dependence Modeling and Applications
1:30pm - 2:50pm	Contributed Session 4: Dealing with Complex Data
2:50pm - 3:10pm	Coffee Break 4: Coffee Break
3:10pm - 5:15pm	Invited Session 7: Latest Trends in Clustering and Classification Methods Session Chair: Marta Nai Ruscone
3:10pm - 5:40pm	Invited Session 8: Robust Statistical Methods I Session Chair: Beatriz Sinova Fernández
7:00pm - 8:00pm	Social Event 1: Classical Concert Location: Wiener Saal in the Mozarteum building; address: Schwarzstrasse 26, 5020 Salzburg

Date: Thursday, 05/Sept/2024

9:00am - 9:55am	Plenary 4: Plenary Speaker Susanne Saminger-Platz
9:55am - 10:20am	Coffee Break 5: Coffee Break
10:20am - 12:00pm	Invited Session 9: Adaptive Computing and Decision Making Session Chair: Simon Hirlander
10:20am - 12:25pm	Invited Session 10: Robustness for Dependent Data Session Chair: Una Radojicic
12:00pm - 1:30pm	Lunch 3: Lunch in the canteen
1:30pm - 5:30pm	Social Event 2: Trip to the Untersberg Sturdy footwear is recommended, but hiking boots are not necessary. It can be windy and the weather can change quickly. Please bring appropriate clothing. In case of bad weather, the trip to the Untersberg will be cancelled and we will register another group for the sightseeing tour.
2:00pm - 4:00pm	Social Event 3: Sightseeing Tour Guided sightseeing tour through Salzburg; Meeting point at 2:00pm: Mozartplatz, monument
7:00pm - 10:00pm	Dinner: Conference Dinner Location: M32 restaurant at 7:00pm Meeting point at 6:30pm to be announced

Date: Friday, 06/Sept/2024

9:00am - 10:40am	Contributed Session 5: Statistical Learning and Applications
9:00am - 10:40am	Contributed Session 6: Dependence Modeling II
10:40am - 11:05am	Coffee Break 6: Coffee Break
11:05am - 12:00pm	Plenary 5: Plenary Talk Christian Wagner
12:00pm - 1:00pm	Lunch 4: Lunch in the canteen
1:00pm - 1:50pm	Invited Session 11: Random Sets and Fuzzy Random Variables Session Chair: Pedro Terán

Presentations

Plenary 1: Plenary Speaker Ingrid Van Keilegom

Time: Tuesday, 03/Sept/2024: 9:15am - 10:10am

Dependent censoring based on copulas

Ingrid Van Keilegom

KU Leuven, Belgium; ingrid.vankeilegom@kuleuven.be

Invited Session 1: Probability Theory Without Probability Measures

Time: Tuesday, 03/Sept/2024: 10:35am - 12:15pm

Session Chair: Pedro Terán

10:35am - 11:00am

Causal Markov categories and possibility theory

Tobias Fritz¹, **Pedro Terán**²

¹University of Innsbruck, Austria; ²University of Oviedo, Spain; tobias.fritz@uibk.ac.at

11:00am - 11:25am

Limit theorems for convex expectations

Jonas Blessing, **Michael Kupper**

University of Konstanz, Germany; kupper@uni-konstanz.de

11:25am - 11:50am

Large deviation theory without probability measures

José Miguel Zapata García

Universidad de Murcia, Spain; jmzg1@um.es

11:50am - 12:15pm

Possibilistic variables and Akian semirings

Pedro Terán

Universidad de Oviedo, Spain; teranpedro@uniovi.es

Invited Session 2: Classification and Clustering with Copulas

Time: Tuesday, 03/Sept/2024: 10:35am - 12:15pm

Session Chair: Fabrizio Durante

10:35am - 11:00am

Dissimilarity-based clustering with soft proximity constraints

Fabrizio Durante¹, Roberta Pappadà²

¹Università del Salento, Lecce, Italy; ²University of Trieste, Italy; rpappada@units.it

11:00am - 11:25am

Hierarchical clustering and CoClust algorithm: a nested procedure to analyse sustainable heating data

F. Marta L. Di Lascio¹, Roberta Pappadà²

¹Free University of Bozen-Bolzano, Italy; ²University of Trieste, Italy; marta.dilascio@unibz.it

11:25am - 11:50am

Copula-based fuzzy clustering of count data with Total Variation distance

Pierpaolo D'Urso¹, Livia De Giovanni², Lorenzo Federico², Vincenzina Vitale¹

¹Sapienza University; ²LUISS University, Italy; lfederico@luiss.it

11:50am - 12:15pm

Hierarchical variable clustering based on measures of predictability

Yuping Wang, Sebastian Fuchs

University of Salzburg, Austria; yuping.wang@plus.ac.at

Contributed Session 1: Fuzzy Theory and Applications

Time: Tuesday, 03/Sept/2024: 1:15pm - 3:15pm

1:15pm - 1:35pm

Fuzzy clustering implementations for big data in R

Vincenzo Di Perna, Maria Brigida Ferraro

Sapienza University of Rome, Italy; mariabrigida.ferraro@uniroma1.it

1:35pm - 1:55pm

New decision rules for fuzzy statistical inferences

Julien Rosset, Laurent Donzé

University of Fribourg, Switzerland; julien.rosset@unifr.ch

1:55pm - 2:15pm

Two-Sample Depth-Based Test for Dispersion in Fuzzy Environment

Przemysław Grzegorzewski, Anna Kozak

Warsaw University of Technology, Poland; przemyslaw.grzegorzewski@pw.edu.pl

2:15pm - 2:35pm

Aggregation of Inhomogeneous Non-stationary Time Series using P-boxes

Olgierd Hryniewicz, Katarzyna Kaczmarek-Majer

Systems Research Institute, Poland; hryniewi@ibspan.waw.pl

2:35pm - 2:55pm

A Bayesian modeling approach to fuzzy data analysis

Antonio Calcagni¹, Przemysław Grzegorzewski²

¹University of Padova, Italy; ²Warsaw University of Technology, Poland; antonio.calcagni@unipd.it

2:55pm - 3:15pm

Compound Conditionals and Fuzzy Sets

Lydia Castronovo¹, Giuseppe Sanfilippo²

¹University of Messina, Italy; ²University of Palermo, Italy; lydia.castronovo@studenti.unime.it

Contributed Session 2: Dependence Modeling I

Time: Tuesday, 03/Sept/2024: 1:35pm - 3:15pm

1:35pm - 1:55pm

Minimizing the expected absolute difference with a fixed continuous copula

Juan Baz, Irene Díaz, Susana Montes

Universidad de Oviedo, Spain; bazjuan@uniovi.es

1:55pm - 2:15pm

Missing in Survival Analysis

Sam Efromovich, **Lirit Fuksman**

University of Texas at Dallas; lirit.fuksman@utdallas.edu

2:15pm - 2:35pm

Comparing bivariate random vectors by means of statistical preference

Julián Ros, **Raúl Pérez-Fernández**, Ignacio Montes

University of Oviedo, Spain; perezfernandez@uniovi.es

2:35pm - 2:55pm

On topologically typical bi-variate Extreme Value copulas

Nicolas Pascal Dietrich¹, Wolfgang Trutschnig²

¹University of Salzburg, Austria; ²University of Salzburg, Austria; nicolaspascal.dietrich@plus.ac.at

2:55pm - 3:15pm

Constructing Measures of Dependence via Sensitivity of Conditional Distributions

Patrick Benjamin Langthaler

Paris-Lodron University Salzburg, Austria; patrick.langthaler@salk.at

Invited Session 3: Dependence Uncertainty

Time: Tuesday, 03/Sept/2024: 3:35pm - 4:50pm

Session Chair: Alfred Müller

3:35pm - 4:00pm

Conditions for the Multivariate Stochastic Order under Dependence Uncertainty

Alfred Müller², Marco Scarsini¹

¹Luiss University, Italy; ²Universität Siegen, Germany; marco.scarsini@luiss.it

4:00pm - 4:25pm

NN

Matthias Scherer

Technical University of Munich, Germany; scherer@tum.de

4:25pm - 4:50pm

Stochastic orders under uncertainty

Alfred Müller

Universität Siegen, Germany; mueller@mathematik.uni-siegen.de

Invited Session 4: Machine Learning and Decision Making Under Weakly Structured Information

Time: Tuesday, 03/Sept/2024: 3:35pm - 4:50pm

Session Chair: Thomas Augustin

Session Chair: Christoph Jansen

3:35pm - 4:00pm

A predictive maintenance cost-model

Florian Sobieczky¹, Ivo Bukovsky², Ondřej Budík², Maqbool Khan³

¹Software Competence Center Hagenberg, Austria; ²University of South Bohemia, Dpt. of Computer Science; ³Pak-Austria Fachhochschule, Institute of Applied Sciences and Technology; florian.sobieczky@scch.at

4:00pm - 4:25pm

Best-possible upper bound on the variance in polynomial time

Marco de Angelis

University of Strathclyde, United Kingdom; marco.de-angelis@strath.ac.uk

4:25pm - 4:50pm

Creation of Probabilistic Models by Experts: A Case Study

Radek Švadlenka¹, Radim Jiroušek²

¹Prague University of Economics and Business, Czech Republic; ²Czech Academy of Sciences, Inst. Information Th. and Automation, Prague; radek.svadlenka@alef.com

Invited Session 5: Optimal Transport for Statistics and Machine Learning

Time: Wednesday, 04/Sept/2024: 10:20am - 12:25pm

Session Chair: Johannes Wiesel

10:20am - 10:45am

Sensitivity of multiperiod optimization problems

Daniel Bartl¹, Johannes Wiesel²

¹University of Vienna, Austria; ²Carnegie Mellon University, USA; daniel.bartl@univie.ac.at

10:45am - 11:10am

Regularised sparse optimal transport for manifold learning

Gilles Mordant

Universität Göttingen, Germany; mordantgilles@gmail.com

11:10am - 11:35am

Minimum intrinsic dimension scaling for entropic optimal transport

Austin J. Stromme

ENSAE / CREST, France; austin.stromme@ensae.fr

11:35am - 12:00pm

The out-of-sample prediction error of the square-root-LASSO and related estimators

José Luis Montiel Olea¹, Cynthia Rush², Amilcar Velez³, Johannes Wiesel⁴

¹Cornell University, United States of America; ²Columbia University, United States of America; ³Northwestern University, United States of America; ⁴Carnegie Mellon University, United States of America; cynthia.rush@columbia.edu

12:00pm - 12:25pm

Empirical martingale projections via the adapted Wasserstein distance

Johannes Wiesel

Carnegie Mellon University, United States of America; wiesel@cmu.edu

Invited Session 6: Theoretical and Applied Aspects of Imprecise Probabilities

Time: Wednesday, 04/Sept/2024: 10:20am - 12:25pm

Session Chair: Enrique Miranda

Session Chair: Arthur Van Camp

10:20am - 10:45am

Reversing inhomogeneous and imprecise Markov chains

Damjan Škulj

University of Ljubljana, Slovenia; damjan.skulj@fdv.uni-lj.si

10:45am - 11:10am

Entropy-Based Search for Most Informative Belief Functions

Radim Jiroušek, Václav Kratochvíl

ÚTIA AV ČR, Czech Republic; radim@utia.cas.cz

11:10am - 11:35am

Semi-Supervised Learning guided by the Generalized Bayes Rule under Soft Revision

Stefan Maximilian Dietrich, Julian Rodemann, Christoph Jansen

Department of Statistics, Ludwig-Maximilians-Universität (LMU), Munich, Germany; dietrich.stefan@campus.lmu.de

11:35am - 12:00pm

Aggregation of the distortion models induced by the KL divergence and Euclidean distance

Ignacio Montes

University of Oviedo, Spain; imontes@uniovi.es

12:00pm - 12:25pm

A comparative analysis of aggregation rules for coherent lower previsions

Juan Jesús Salamanca, Ignacio Montes, Enrique Miranda

University of Oviedo, Spain; mirandaenrique@uniovi.es

Contributed Session 3: Dependence Modeling and Applications

Time: Wednesday, 04/Sept/2024: 1:30pm - 2:50pm

1:30pm - 1:50pm

Estimation of Conditional Value-at-Risk in Linear Model

Jana Jurečková¹, Jan Pícek², Jan Kalina³

¹Institute of Information Theory and Automation AV ČR, Czech Republic (Senior Research Fellow); ²Technical University in Liberec, Czech Republic; ³Institute of Computer Science AV ČR, Czech Republic; jurecko@karlin.mff.cuni.cz

1:50pm - 2:10pm

Applied Statistics in industry: defining an appropriate target variable and analysing factors affecting aluminium ingot quality

Manuela Schreyer¹, Marco Tschimpke², Alexander Gerber³, Steffen Neubert³, Wolfgang Trutschnig²

¹AMAG Austria Metall GmbH, Austria; ²Department for Artificial Intelligence & Human Interfaces, University of Salzburg, Austria;

³AMAG Casting GmbH, Austria; manuela.schreyer@amag.at

2:10pm - 2:30pm

An empirical study on new model-free multi-output variable selection methods

Jonathan Ansari¹, Eva Lütkebohmert², Marcus Rockel²

¹Paris Lodron Universität Salzburg, Austria; ²Albert-Ludwigs-Universität Freiburg, Germany; marcus.rockel@finance.uni-freiburg.de

2:30pm - 2:50pm

Singular components of shock model copulas

Tomaž Košir, Matjaž Omladič

University of Ljubljana, Slovenia; tomaz.kosir@fmf.uni-lj.si

Contributed Session 4: Dealing with Complex Data

Time: Wednesday, 04/Sept/2024: 1:30pm - 2:50pm

1:30pm - 1:50pm

Sensitivity analysis on the choice of the metric on Cronbach's α coefficient for interval-valued data in questionnaires

José García-García¹, María Ángeles Gil^{1,2}, María Asunción Lubiano¹

¹University of Oviedo, Spain; ²Spanish Royal Academy of Sciences, Spain; garciajarjose@uniovi.es

1:50pm - 2:10pm

Addressing Incomplete Data in Two-way Contingency Tables with Three-Level Variables

Pitchayanin Makapawee, Kanyawee Kamkongkaew, Monchai Kooakachai

Department of Mathematics and Computer Science, Faculty of Science, Chulalongkorn University, Thailand; Monchai.k@chula.ac.th

2:10pm - 2:30pm

Robustness of statistical methods for modelling paired count data

Marta Nai Ruscone

University of Genova, Italy; marta.nairuscone@unige.it

2:30pm - 2:50pm

Multi-way contingency tables with uniform margins

Elisa Perrone¹, Roberto Fontana², Fabio Rapallo³

¹Eindhoven University of Technology, The Netherlands; ²Politecnico di Torino, Italy; ³Università di Genova, Italy; e.perrone@tue.nl

Invited Session 7: Latest Trends in Clustering and Classification Methods

Time: Wednesday, 04/Sept/2024: 3:10pm - 5:15pm

Session Chair: Marta Nai Ruscone

3:10pm - 3:35pm

An EM Stopping Rule for Avoiding Degeneracy in Gaussian-based Clustering with Missing Data

Christophe Biernacki¹, Vincent Vandewalle^{1,2}

¹Inria, France; ²Univ. Côte d'Azur, France; christophe.biernacki@inria.fr

3:35pm - 4:00pm

Variable selection for clustering three-way data

Mackenzie Rose Neal, Paul David McNicholas

McMaster University, Canada; nealm6@mcmaster.ca

4:00pm - 4:25pm

Clustering on the d-dimensional sphere: Latest trends and the role of Poisson kernel-based density models

Marianthi Markatou

SUNY University at Buffalo, United States of America; markatou@buffalo.edu

4:25pm - 4:50pm

Clustering ordinal data via parsimonious models

Roberto Rocci, Monia Ranalli

Sapienza University of Rome, Italy; roberto.rocci@uniroma1.it

4:50pm - 5:15pm

Clusterwise Joint Independent Component Analysis: a novel method to discover disease related subtypes using multi-modal neuroimaging data.

Jeffrey Durieux¹, Tom F. Wilderjans²

¹Econometrics Institute, Erasmus School of Economics, Erasmus University, The Netherlands; ²Methodology and Statistics Unit, Institute of Psychology, Leiden University, The Netherlands; durieux@ese.eur.nl

Invited Session 8: Robust Statistical Methods I

Time: Wednesday, 04/Sept/2024: 3:10pm - 5:40pm

Session Chair: Beatriz Sinova Fernández

3:10pm - 3:35pm

Low-rank Approximation of Data Matrices Using Robust Sparse Principal Component Analysis

Pia Pfeiffer, Peter Filzmoser

TU Wien, Austria; peter.filzmoser@tuwien.ac.at

3:35pm - 4:00pm

Robust estimation for step-stress experiments with non-destructive one-shot devices

NARAYANASWAMY BALAKRISHNAN¹, MARÍA JAENADA², LEANDRO PARDO²

¹McMaster University; ²Complutense University of Madrid, Spain; mjaenada@ucm.es

4:00pm - 4:25pm

Robust Sparse PCA with R

Valentin Todorov

UNIDO, Austria; valentin@todorov.at

4:25pm - 4:50pm

Aggregation of random initializations for robust linear clustering

Pedro Cesar Álvarez-Esteban, Luis Angel García-Escudero, Agustín Mayo-Isacar

University of Valladolid, Spain; lagarcia@uva.es

4:50pm - 5:15pm

Fuzzy S-estimators

Beatriz Sinova¹, Stefan Van Aelst²

¹Universidad de Oviedo, Spain; ²KU Leuven, Belgium; stefan.vanaelst@kuleuven.be

5:15pm - 5:40pm

Fuzzy medoids based on an L1-type distance

Beatriz Sinova Fernández¹, Sergio Palacio Vega², María Ángeles Gil^{1,3}

¹University of Oviedo, Spain; ²McKinsey & Company; ³Spanish Royal Academy of Sciences, C/ Valverde, 22, 28004, Madrid, Spain; sinovabeatriz@uniovi.es

Plenary 4: Plenary Speaker Susanne Saminger-Platz

Time: Thursday, 05/Sept/2024: 9:00am - 9:55am

Copulas and Triangular Norms: Selected Commonalities and Differences

Susanne Saminger-Platz

Johannes Kepler University Linz, Austria; susanne.saminger-platz@jku.at

Invited Session 9: Adaptive Computing and Decision Making

Time: Thursday, 05/Sept/2024: 10:20am - 12:00pm

Session Chair: Simon Hirlaender

10:20am - 10:45am

Exploring Deep Reinforcement Learning algorithms for enhanced HVAC control

Antonio Manjavacas, Alejandro Campoy-Nieves, Miguel Molina-Solana, Juan Gómez-Romero

University of Granada, Spain; manjavacas@ugr.es

10:45am - 11:10am

Python-Based Reinforcement Learning on Simulink Models

Georg Schäfer^{1,2,3}, Max Schiri^{2,3}, Jakob Rehr^{1,2}, Stefan Huber^{1,2}, Simon Hirlaender³

¹Josef Ressel Centre for Intelligent and Secure Industrial Automation; ²Salzburg University of Applied Sciences; ³Paris Lodron University of Salzburg; georg.schaefer@fh-salzburg.ac.at

11:10am - 11:35am

Multi-Agent Reinforcement Learning and its application to wireless network communication

Sabrina Pochaba^{1,2}, Peter Dorfanger¹, Matthias Herlich¹, Roland Kwitt², Simon Hirlaender²

¹Salzburg Research Forschungsgesellschaft mbH, Austria; ²Paris-Lodron-University, Salzburg, Austria; sabrina.pochaba@salzburgresearch.at

11:35am - 12:00pm

Deep Meta Reinforcement Learning for Rapid Adaptation in Linear Markov Decision Processes: Applications to CERN's AWAKE Project

Simon Hirlaender¹, Sabrina Pochaba¹, Lukas Lamminger¹, Andrea Santamaria Garcia², Annika Eichler³, Chenran Xu², Jan Kaiser³, Verena Kain⁴

¹IDA Lab, Austria; ²KIT, Karlsruhe; ³DESY, Hamburg; ⁴CERN, Geneva; simon.hirlaender@plus.ac.at

Invited Session 10: Robustness for Dependent Data

Time: Thursday, 05/Sept/2024: 10:20am - 12:25pm

Session Chair: Una Radojicic

10:20am - 10:45am

Wavelet Variance Based Robust Estimation of Composite Stochastic Models

Maria-Pia Victoria-Feser¹, Stephane Guerrier², Roberto C. Molinari³

¹University of Bologna, Italy; ²University of Geneva, Switzerland; ³Auburn University, USA; maria.victoriafeser@unibo.it

10:45am - 11:10am

Order determination in second-order source separation models using data augmentation

Una Radojicic¹, Klaus Nordhausen²

¹TU Wien Austria; ²University of Jyväskylä, Finland; klaus.k.nordhausen@jyu.fi

11:10am - 11:35am

Robustness in LiNGAM models

Jakob Raymaekers

University of Antwerp, Belgium; jakob.raymaekers@uantwerpen.be

11:35am - 12:00pm

Functional Outlier Detection

Jeremy Oguamalam, Una Radojicic, Peter Filzmoser

TU Wien, Austria; una.radojicic@tuwien.ac.at

12:00pm - 12:25pm

Robust ARIMA versus LSTM

Christophe Croux

KU Leuven, Belgium; christophe.croux@kuleuven.be

Contributed Session 5: Statistical Learning and Applications

Time: Friday, 06/Sept/2024: 9:00am - 10:40am

9:00am - 9:20am

Optimal change-point sequential detection in autoregressive time series

Serge Pergamenchikov, Roman Tenzin

Université de Rouen Normandie, France; mr.roman.tenzin@gmail.com

9:20am - 9:40am

Smoke Emission Detection by Deep Learning

Jo-Huan Lee, Chi-Bin Cheng

Tamkang University, Taiwan; cbcheng@mail.tku.edu.tw

9:40am - 10:00am

Learning in Reproducing Kernel Hilbert Spaces for Orbits of Iterated Function Systems

Priyanka Roy^{1,2}, Susanne Saminger-Platz²

¹Software Competence Center Hagenberg, A-4232 Hagenberg, Austria; ²Johannes Kepler University Linz, Institute for Math. Methods in Medicine and Data-Based Modeling, A-4020 Linz, Austria; priyanka.roy@jku.at

10:00am - 10:20am

Data augmentation with ChatGPT for assessing subject alignment

Louisa Kontoghiorghes¹, Ana Colubi²

¹King's College London, United Kingdom; ²King's College London, United Kingdom; louisa@kontoghiorghes.com

10:20am - 10:40am

The impact of sentiment in social network communication

Soveatin Kuntur, Anna Krystyna Cena

Warsaw University of Technology, Poland; anna.cena@pw.edu.pl

Contributed Session 6: Dependence Modeling II

Time: Friday, 06/Sept/2024: 9:00am - 10:40am

9:00am - 9:20am

Common Models of Errors in Variables

Henrik Kaiser

Paris Lodron University of Salzburg, Austria; henrik.kaiser@plus.ac.at

9:20am - 9:40am

Characterizations of Multivariate Implicit Dependence Copulas

Tippawan Santiwipanont, Songkiat Sumetkijakan, Noppawit Yanpaisan

Chulalongkorn University, Thailand; songkiat.s@chula.ac.th

9:40am - 10:00am

Patchwork methods for multivariate quasi-copulas

Matjaz Omladic, Tomaz Kosir

University of Ljubljana, Faculty of Mathematics and Physics, Slovenia; matjaz@omladic.net

10:00am - 10:20am

Quantifying directed dependence with Kendall's tau

Carsten Limbach, Sebastian Fuchs

Paris Lodron University of Salzburg, Austria; carsten.limbach@plus.ac.at

10:20am - 10:40am

Some notes on bivariate lower semilinear copulas

Lea Maislinger, Wolfgang Trutschnig

University of Salzburg, Austria; lea.maislinger@plus.ac.at

Plenary 5: Plenary Talk Christian Wagner

Time: Friday, 06/Sept/2024: 11:05am - 12:00pm

The Joint Weighted Average (JWA) Operator

Stephen B. Broomell¹, Christian Wagner²

¹GRID -- Global Risk and Individual Decisions Laboratory, Purdue University, West Lafayette IN 47907, USA; ²Lab for Uncertainty in Data and Decision Making, University of Nottingham, Nottingham, UK; christian.wagner@nottingham.ac.uk

Invited Session 11: Random Sets and Fuzzy Random Variables

Time: Friday, 06/Sept/2024: 1:00pm - 1:50pm

Session Chair: Pedro Terán

1:00pm - 1:25pm

Intersections of randomly translated sets

Tommaso Visonà

Universität Bern, Switzerland; tommaso.visona@unibe.ch

1:25pm - 1:50pm

On a linear regression model for star-shaped set-valued random elements

José Graña-Colubi¹, Gil Gonzalez-Rodriguez^{1,2}, Ana Belen Ramos-Guajardo^{1,2}

¹University of Oviedo, Spain; ²INDUROT; ramosana@uniovi.es