

Conference Programme

Monday, June 25th

- 13.30–16.00 Guided walking tour (from Hotel Viru, Tallinn)
14.00–20.00 Registration (J. Liivi 2, Tartu)

Tuesday, June 26th

- 08.00–09.15 Registration
09.30–09.40 Opening (Room 111)

Session 1

Room 111: Chair Dietrich von Rosen

- 09.40–10.40 Keynote Lecture
M. S. Srivastava: Recent Advances and Trends in Multivariate Analysis
10.40–11.10 Invited Lecture
M. Perlman, S. Chaudhuri: Reversing the Stein Effect
11.10–11.30 Coffee break

Session 2

Room 111: Chair Roger Nelsen

- 11.30–12.00 Invited Lecture
N. Kolev: Copula-Based Regression Models
12.00–12.20 *J. Nešlehová, A. J. McNeil:* Archimedean Copulas in High Dimensions
12.20–12.40 *J. Fortiana, A. Esteve, E. Boj:* Adaptive Metrics for Distance-Based Statistics
12.40–13.00 *A. Kolesárová, R. Mesiar, C. Sempi:* Copulae and Measure-Preserving Transformations
13.00–14.20 Lunch break

Session 3

Room 111: Chair Muni Srivastava

- 14.20–15.20 Keynote Lecture
N. Balakrishnan: A Skewed Look at Bivariate and Multivariate Order Statistics
15.20–15.40 *B. C. Arnold:* Flexible Univariate and Multivariate Models Based on Hidden Truncation
15.40–16.00 Coffee break

Session 4

Room 111: Chair Tõnu Kollo

- 16.00–16.30 Invited Lecture
P. E. Jupp: Uniformity in directional statistics: data-driven tests and free-lunch learning
- 16.30–17.00 Invited Lecture
S. Andersson, T. Klein: Rietz- and Wishart Distribution Associated with a Decomposable Undirected Graph
- 17.00–17.20 *M. S. Srivastava, T. Nahtman, D. von Rosen*: Kronecker Product Covariance Structure in Multivariate Linear Models
- 17.20–17.40 *A. Kaasik, K. Pärna*: Approximating the Integrated Tail Distribution
- 17.45–19.15 Guided walking tour (from J. Liivi 2)
- 20.00–22.00 Welcome Reception (Lossi 25)

Wednesday, June 27th

Session 5A

Room 405: Chair Carles Cuadras

- 09.00–09.20 *F. Durante, E. P. Klement, J. J. Quesada-Molina*: Trivariate Copulas with Given Bivariate Marginals
- 09.20–09.40 *G. A. Fredricks*: A Conjecture of Bertino: from Copulas to Graph Theory
- 09.40–10.00 *E. Liebscher*: Modelling and Estimation of Multivariate Densities in a Copula-Based Model
- 10.00–10.20 *A. K. Nikoloulopoulos, D. Karlis*: Finite Normal Mixture Copula for Modelling Multivariate Discrete Data

Session 5B

Room 404: Chair Mindaugas Bloznelis

- 09.00–09.20 *M. Käärrik, K. Pärna*: On the Quality of k -Means Clustering Based on Grouped Data
- 09.20–09.40 *K. Dučinskas*: Discrimination of Equicorrelated Observations
- 09.40–10.00 *A. Chuprunov, L. Terekhova*: Almost Sure Versions of Limit Theorems for Random Sums
- 10.20–10.50 Coffee break

Session 6A

Room 405: Chair Christian Genest

- 10.50–11.10 *C. M. Cuadras:* A Class of Power Series Copulas Constructed with Weighted Geometric Means
- 11.10–11.30 *J. J. Quesada-Molina, S. Saminger, C. Sempi:* Quasi-Copulas with Given Sub-Diagonal Sections
- 11.30–11.50 *S. Saminger:* On Constructions and Boundaries for some Type of 2-Increasing Functions
- 11.50–12.10 *G. Massonnet, P. Janssen, L. Duchateau:* Modeling Udder Data using Copula Models for Quadruples
- 12.10–12.30 *I. Koch, A. De Schepper:* The Comonotonicity Coefficient: a Multivariate Measure for Positive Dependence

Session 6B

Room 404: Chair Kalev Pärna

- 10.50–11.10 *M. Bloznelis:* Large Clusters of Intersection Graphs
- 11.10–11.30 *A. Bakshaev:* Homogeneity and Goodness-of-Fit Tests on the Basis of N-distances
- 11.30–11.50 *S. Kropf:* Multivariate Tests Based on Pairwise Distance or Similarity Measures
- 11.50–12.10 *T. Varatnitskaya:* Estimating of Main Characteristics of Processes with Non-Regular Observations
- 12.10–12.30 *I. Belov, A. Kabašinskas, L. Sakalauskas:* Modeling of Financial Portfolio in Emerging Markets
- 12.30–14.00 Lunch break

Session 7A

Room 405: Chair Michael Perlman

- 14.00–14.20 *B. Fountain, A. Talebi:* "Weak" Stochastic Orderings and Dependence Measures
- 14.20–14.40 *J. Mielniczuk, W. B. Wu:* On some Measures of Strength of Dependence Based on Coupling
- 14.40–15.00 *G. A. Fredricks, R. B. Nelsen:* On the Relationship between Spearman's Rho and Kendall's Tau for Continuous Random Variables
- 15.00–15.20 *N. Kolev, M. Goncalves, B. Dimitrov:* Probabilistic Properties of Sibuya's Dependence Function

Session 7B

Room 404: Chair Lennart Bondesson

- 14.00–14.20 *A. Andronov:* On Nonparametric Interval Estimation of a Regression Function Based on the Resampling
- 14.20–14.40 *E. P. Liski:* A Data-Driven Lack-of-Fit Test of Regression Functions
- 14.40–15.00 *S. Puntanen:* Decomposing the Efficiency of the Ordinary Least Squares Estimator in a Linear Regression Model
- 15.00–15.20 *E. Käärik:* Modelling Dropouts by Conditional Distribution, a Copula-Based Approach
- 15.20–15.50 Coffee break

Session 8A

Room 405: Chair Jürgen Läuter

- 15.50–16.10 *N. Lepik, K. Sõstra, I. Traat:* Conditional Restriction Estimator for Domains
- 16.10–16.30 *G. Rönning:* Linear Models with Measurement Errors Arising from Mixture Distributions
- 16.30–16.50 *M. Juhkam, K. Pärna:* Sampling From Populations With Large Number of Classes
- 16.50–17.10 *J. Aru:* Estimation of Covariance Matrix under Informative Sampling
- 17.10–17.30 *M. Tretyakova:* Recognition of Extreme Events Based on Heterogeneous Multidimensional Time Series

Session 8B

Room 404: Chair Jüri Lember

- 15.50–16.10 *J. Grala-Michalak, A. Michalak:* On Representations of Stochastic Processes by Radon Measures on $D(0, 1)$
- 16.10–16.30 *Z. Fabián:* Johnson Mutual Information and Its Use in Multivariate Problems and Time-Series Analysis
- 16.30–16.50 *A. Zeifman:* Asymptotic Bounds of the Rate of Convergence for some Stochastic Models
- 16.50–17.10 *D. Surgailis, G. Teyssière, M. Vaičiulis:* The Increment Ratio Test for Long Memory
- 17.10–17.30 *P. Lachout:* Estimation Process, Consistency

Thursday, June 28th

Session 9

Room 111: Chair Nikolai Kolev

09.00–09.30 Invited Lecture

C. Genest, J. Nešlehová: Modeling Count Data with Copulas: Should We?

09.30–09.50 *R. B. Nelsen, J. J. Quesada-Molina, J. A. Rodríguez-Lallena, M. Úbeda-Flores:* Quasi-Copulas and Signed Measures

09.50–10.10 *J. A. Rodríguez-Lallena:* Properties of a New Class of Bivariate Copulas

10.10–10.30 *V. E. Piperigou:* Discrete Distributions in the Extended FGM Family: the P.G.F. Approach

10.30–10.50 Coffee break

Session 10

Room 111: Chair Steen Andersson

10.50–11.20 Invited Lecture

L. Bondesson: On Univariate and Bivariate Generalized Gamma Convolutions

11.20–11.40 *A. Koloydenko:* A Hidden Polyhedral Markov Model for Diffusion MRI

11.40–12.00 *J. Lember, A. Koloydenko, M. Käärrik:* Infinite Viterbi Alignment: Properties and Applications

12.00–12.20 *J. Lember, H. Matzinger:* On the Variance and Uniqueness of Longest Common Subsequence

12.20–13.45 Lunch break

13.45–20.00 Excursion(s) (from J. Liivi 2)

Friday, June 29th

Session 11A

Room 405: Chair Peter Jupp

09.00–09.20 *M. Ohlson, T. Koski:* More on Distributions of Quadratic Forms

09.20–09.40 *T. Kollo:* Multivariate skewness and kurtosis of a random vector

09.40–10.00 *H. Kilgi:* Shifted Multivariate Laplace Distribution

10.00–10.20 *L. A. Zolotukhina, I. V. Zolotukhin:* Some Characteristics of Generalized Multivariate Laplace Distribution

Session 11B

Room 404: Chair Siegfried Kropf

- 09.00–09.20 *J. Läuter, E. Glimm:* Testing the Relevance of Selected Variables - a New Approach to Multivariate Testing Problems
- 09.20–09.40 *E. Glimm:* Testing Treatment Combinations versus the Corresponding Monotherapies
- 09.40–10.00 *T. Nahtman:* Linear Mixed Models for the Analysis of Peptide Epitope Microarray Data
- 10.00–10.20 *M. Möls, K. Fischer, A. Uusküla, H. Kilgi:* Generalized Linear Mixed Models to Analyse Data from Respondent-Driven Sampling
- 10.20–10.40 Coffee break

Session 12A

Room 405: Chair Barry Arnold

- 10.40–11.00 *H. Drygas:* QR-Decomposition from the Statistical Point of View
- 11.00–11.20 *A. Kharin, P. Shlyk:* Multivariate Robust Bayesian Forecasting under Functional Distortions in the t Metric
- 11.20–11.40 *I. V. Zolotukhin, L. A. Zolotukhina:* Method of Iterative-Orthogonal Regression for Calculation of Robust Estimates in Confluence Analysis Scheme
- 11.40–12.00 *M. Pihlak:* Approximation of Multivariate Distribution Functions
- 12.00–12.20 *M. Radavičius, T. Rekašius:* Modeling Noise in Genetic Sequences

Session 12B

Room 404: Chair Alexander Andronov

- 10.40–11.00 *M. Radavičius, J. Židanavičiūtė:* Analysis of Sparse Contingency Tables with Applications
- 11.00–11.20 *M. Vähi, E.-M. Tiit:* Using Multivariate Statistics to Describe the Demographic Behaviour of Europeans
- 11.20–11.40 *D. Santalova:* Single Index Model for Railway Passenger Conveyances Forecasting in Regions of Latvia
- 11.40–12.00 *C. Zhukovskaya:* Use of Generalized Linear Model in Forecasting of Air Passengers' Conveyances From EU Countries
- 12.00–12.20 *M. Radavičius, G. Jakimauskas, J. Sušinskas:* Clustering and Testing in High-Dimensional Data
- 12.20–13.50 Lunch break

Session 13

Room 111: Chair Ene-Margit Tiit

- 13.50–14.20 Invited Lecture
L. Rüschendorf: Stochastic Ordering and Risk Measures for Portfolio Vector
- 14.20–14.40 *P. Embrechts, G. Puccetti*: Bounds for Functions of Multivariate Risks
- 14.40–15.00 *I. Žežula*: On Multivariate Gaussian Copulas
- 15.00–15.20 *A. Sepp*: Dynamic Correlation Models for Credit Portfolios
- 15.20–15.40 Coffee break

Session 14

Room 111: Chair Ludger Rüschendorf

- 15.40–16.00 *T. Tamkivi, T. Kollo*: Modeling Dependence of Daily Stock Prices and Making Predictions of Future Movements
- 16.00–16.20 *S. Staleuskaya*: Optimal Portfolio Investment by Kelly Criterion
- 16.20–16.40 *A. Čuvak, Z. Kalinauskas*: Application of Multiple Regression Models for Lithuanian Inflation
- 19.00–22.00 Conference Dinner (Narva mnt. 2)