

Programme Schedule

Sunday, June 26th

16.00–20.00 Registration

Monday, June 27th

8.00-9.00 Registration
9.05-9.20 Opening
9.20-13.00 Sessions 1, 2
13.00-14.30 Lunch
14.30-17.30 Sessions 3A, 3B, 4
17.45-19.15 Guided walking tour in Tartu
20.00-22.00 Welcome Reception

Tuesday, June 28th

9.00-12.40 Sessions 5, 6
12.40-14.10 Lunch
14.10-17.10 Session 7

Wednesday, June 29th

9.00-12.40 Sessions 8A, 8B, 9A, 9B
12.40-14.00 Lunch
14.00-20.00 Excursion(s)

Thursday, June 30th

9.00-13.00 Sessions 10, 11
13.00-14.30 Lunch
14.30-17.30 Sessions 12A, 12B, 13
19.00-22.00 Conference Dinner

Friday, July 1st

Departure

Conference Programme

Sunday, June 26th

16.00–20.00 **Registration.** J. Liivi 2, foyer

Monday, June 27th

8.00–09.00 **Registration.** J. Liivi 2, foyer

9.05–09.20 **Opening.** Room 111

Session 1

Room 111: Chair Ene-Margit Tiit

9.20–10.20 Keynote Lecture

I. Olkin: Life distributions in survival analysis and reliability:
Structure of semiparametric families

10.20–11.00 Invited Lecture

A. Azzalini: On estimation problems for multivariate skew-symmetric distributions

11.00–11.20 **Coffee break**

Session 2

Room 111: Chair Imbi Traat

11.20–12.00 Invited Lecture

B. Sinha: Privacy protection and quantile estimation under noise multiplications

12.00–12.20 *Y. K. Belyaev:* Analysis of contingent valuation data with self-selected rounded WTP-intervals collected by two-steps sampling plans

12.20–12.40 *N. Lepik:* Estimation under restrictions built upon biased initial estimators

12.40–13.00 *P. E. Oliveira:* Polynomial smoothing of discrete sparsely observed distribution

13.00–14.30 **Lunch**

Session 3A. High-dimensional analysis

Room 111: Chair Muni S. Srivastava

- 14.30-14.50 *D. Adolf, S. Kropf*: Block-wise permutation tests for correlated multivariate imaging data
- 14.50-15.10 *S. Kropf, G.-C. Ding, H. Heuer, K. Smalla*: A modified principal component test for high-dimensional data
- 15.10-15.30 *M. R. Ahmad, M. Ohlson, D. von Rosen*: Some tests for covariance matrices with large dimension
- 15.30-15.50 *J. Pielaśkiewicz, M. Ohlson, D. von Rosen*: Asymptotics for the normalized spectral function

Session 3B. Applications in transport

Room 405: Chair Kalev Pärna

- 14.30-14.50 *A. Andronov*: Maximum likelihood estimates for Markov-additive processes of arrivals by aggregated data
- 14.50-15.10 *M. Hauka, Y. Paramonov*: Minimax decision for solution of the problem of aircraft and airline reliability processing results of acceptance full-scale fatigue test of airframe
- 15.10-15.30 *I. Foox, I. Glukhova, G. Koshkin*: Semi-recursive algorithms nonparametric of identification and control
- 15.30-15.50 *N. Medvedev, P. Panfilov*: Methods and algorithms for estimation of statistical characteristics of the MPLS network

15.50–16.10 **Coffee break**

Session 4. Distribution theory

Room 111: Chair Tõnu Kollo

- 16.10-16.30 *R. A. Arellano-Valle, W.-D. Richter*: On skewed $l_{n,p}$ -symmetric distributions
- 16.30-16.50 *C. M. Cuadras, W. Diaz*: Another generalization of bivariate FMG distributions
- 16.50-17.10 *H. Ogasawara*: Cornish-Fisher expansions using sample cumulants and monotonic transformations
- 17.10-17.30 *M. Pihlak*: Using Edgeworth expansion approximating two- and three-dimensional probability distribution functions
- 17.45–19.15 **Guided walking tour in Tartu** (from J. Liivi 2)
- 20.00–22.00 **Welcome Reception.** Museum of History of UT, Lossi 25

Tuesday, June 28th

Session 5

Room 111: Chair Bent Jørgensen

9.00-10.00 Keynote Lecture

I. Olkin: Majorization and its applications

10.00-10.40 Invited Lecture

M. Greenacre: Biplot videos

10.40–11.00 **Coffee break**

Session 6

Room 111: Chair Adelchi Azzalini

11.00-12.00 **Samuel Kotz Memorial Lecture**

N. Balakrishnan: On Pearson-Kotz Dirichlet distributions

12.00-12.40 Invited Lecture

B. Jørgensen: Multivariate exponential dispersion models

12.40-14.10 **Lunch**

Session 7. Muni S. Srivastava 75 jubilee Session

Room 111: Chair Dietrich von Rosen

14.10-14.30 *T. Kollo:* Life in statistics - Muni S. Srivastava 75

14.30-15.10 Invited Lecture

M. S. Srivastava: A two sample test in high dimension with fewer observations

15.10-15.40 *D. von Rosen:* Multivariate linear models and profile analysis

15.40-16.10 *H. Yanagihara:* A comparison of three estimators in GMANOVA model when the sample size is fewer than the dimension

16.10-16.30 **Coffee break**

16.30-16.50 *E. Glimm:* Multivariate and multiple testing of hypothesis - what is preferred in the analysis of clinical trial data and why?

16.50-17.10 *M. Ohlson:* Profile analysis for a Growth Curve model

Wednesday, June 29th

Session 8A. Classification methods

Room 111: Chair Alfredas Račkauskas

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| 9.00-9.20 | <i>K. Dučinskas, L. Drežienė:</i> Optimal classification of the multivariate GRF observations |
| 9.20-9.40 | <i>R. Kangro, K. Pärna:</i> K-nearest neighbors as pricing tool in insurance |
| 9.40-10.00 | <i>A. J. Lee, B. Willcox:</i> Generalizations of Ward's method, or, norms and netball - what's the connection? |
| 10.00-10.20 | <i>S. Nagy:</i> Depth-based classification for functional data |
| 10.20-10.40 | <i>N. Chichvarin, I. Chichvarin:</i> Combined method which includes statistical and heuristic approaches in object recognition |

Session 8B. Applications in finance and insurance

Room 405: Chair Remigijus Leipus

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| 9.00-9.20 | <i>M. Käärik, H. Kadarik:</i> Limited expected value function and its applications in insurance mathematics |
| 9.20-9.40 | <i>A. Žegulova, M. Käärik:</i> On estimation of loss distributions and risk measures |
| 9.40-10.00 | <i>M. Lira Vidrio:</i> Non-linearity in the returns of the Colombian coffee prices |
| 10.00-10.20 | <i>D. Teneng:</i> NIG Lévy process in asset price modelling: Case of Estonian companies |
| 10.20-10.40 | <i>D. Filatova:</i> Estimating the time-varying parameters of stochastic differential equation by maximum principle in finance tasks |
- 10.40–11.00 **Coffee break**

Session 9A

Room 111: Chair Simo Puntanen

- 11.00-11.20 *F. Carvalho, J. T. Mexia:* Error orthogonal models and commutative orthogonal block structure: Equivalence
- 11.20-11.40 *J. T. Mexia:* Structured families of models with commutative orthogonal block structure
- 11.40-12.00 *H. J. Werner:* Some results related to the general Gauss-Markov model - weak complementarity, non-testability and missing observations
- 12.00-12.20 *J. J. Hunter:* Markov chain properties in terms of column sums of the transition matrix
- 12.20-12.40 *S. E. Ahmed:* Estimating regression parameters: A mosaic of estimation strategies

Session 9B

Room 405: Chair Jüri Lember

- 11.00-11.20 *R. Leipus:* Memory properties of aggregated autoregressive processes and fields
- 11.20-11.40 *A. Račkauskas, C. Suquet:* Multivariate models with space varying memory
- 11.40-12.00 *A. Malyarenko:* Statistical analysis of cosmic microwave background data
- 12.00-12.20 *M. R. Özkale:* On the performance of the restricted estimators
- 12.20-12.40 *Y. Khusanbaev, G. Rakhimov:* The asymptotic results for nearly critical branching processes with immigration

12.40–14.00 **Lunch**

14.00-20.00 **Excursion(s)**

Thursday, June 30th

Session 10

Room 111: Chair George P. H. Styan

9.00-9.40 Invited Lecture

J. Volaufova: On exact testing problems in linear models with two variance-covariance components

9.40-10.20 Invited Lecture

A. Markiewicz: Spectral properties of information matrices and design optimality

10.20-10.40 *K. Filipiak:* On the E-optimality of complete designs under a mixed interference model

10.40-11.00 **Coffee break**

Session 11. Linear models

Room 111: Chair Hans J. Werner

11.00-11.20 *A. Kaasik:* Residuals of a linear model for correlated data with measurement errors

11.20-11.40 *E. P. Liski, A. Liski:* A comparison of least squares model averaging estimators

11.40-12.00 *S. Pynnonen:* Distribution of an arbitrary linear transformation of internally Studentized residuals of multivariate regression with elliptical errors

12.00-12.20 *L. R. LaMotte:* Estimability and restrictions in linear models

12.20-12.40 *B. Schaffrin, S. Uzun:* On the reliability of Errors-in-Variables models

12.40-13.00 *E. Chimitova, N. Galanova:* Testing goodness-of-fit with parametric ATF model

13.00-14.30 **Lunch**

Session 12A. General linear models

Room 111: Chair Augustyn Markiewicz

- 14.30-14.50 *D. Klein, I. Žežula:* Simultaneous confidence region for ϱ and σ^2 in the Growth Curve model with uniform correlation structure
- 14.50-15.10 *Y. Liang, T. von Rosen, D. von Rosen:* Combined permutation invariant covariance matrix and estimation in multilevel models
- 15.10-15.30 *J. Nzabanita, M. Ohlson, D. von Rosen:* Estimation of parameters in the extended Growth Curve model with linearly structured covariance matrix
- 15.30-15.50 *J. Wei, Y. Li, D. von Rosen:* A Study on the distribution of the residual in the Growth Curve model
- 15.50-16.10 *P. A. Kashitsyn:* Multivariate model with a Kronecker product covariance structure: A general linear model

Session 12B. Applications in life sciences

Room 405: Chair Krista Fischer

- 14.30-14.50 *J. K. Filus, L. Z. Filus:* Construction of bivariate survival probability functions related to 'micro-shocks' - 'micro-damages' paradigm
- 14.50-15.10 *J. Graffelman:* On the canonical correlation analysis of bi-allelic genetic markers
- 15.10-15.30 *T. von Rosen, M. Valge, T. Võrno, E. Käärik:* On the identification of sets of informative peptides on antigen microarrays
- 15.30-15.50 *M. Vähi:* Stochastic forecast of the population using models for fertility and mortality

16.10-16.30 **Coffee break**

Session 13. IWMS and History

Room 111: Chair Jeffrey J. Hunter

- 16.30-17.00 *S. Puntanen:* Twenty times IWMS: A short history
- 17.00-17.30 *G. P. H. Styan:* Caïssan squares: The magic of chess
- 19.00–22.00 **Conference Dinner.** Restaurant Atlantis, Narva mnt. 2

Friday, July 1st

Departure