



Program, April 20, 2022

- 12.50 **Opening** Dietrich von Rosen, Tõnu Kollo, Darren Sugrue, Martin Singull
- 13.00 **An overview of skew distributions in model-based clustering** Sharon X. Lee, *Geoffrey J. McLachlan* [1]
- 13.10 **Matrix differential calculus with applications in the multivariate linear model and its diagnostics** *Shuangzhe Liu, Víctor Leiva, Dan Zhuang, Tiefeng Ma, Jorge I. Figueroa-Zúñiga* [2]
- 13.20 **High-dimensional consistencies of KOO methods in multivariate regression model and discriminant analysis** *Yasunori Fujikoshi* [3]
- 13.30 **The volume-of-tube method for Gaussian random fields with inhomogeneous variance** *Satoshi Kuriki, Akimichi Takemura, Jonathan E. Taylor* [4]
- 13.40 **On the usage of joint diagonalization in multivariate statistics** *Klaus Nordhausen, Anne Ruiz-Gazen* [5]
- Short break
- 14.00 **Geometric classifiers for high-dimensional noisy data** *Aki Ishii, Kazuyoshi Yata, Makoto Aoshima* [6]
- 14.10 **Some aspects of response variable selection and estimation in multivariate linear regression** *Jianhua Hu, Xiaoqian Liu, Xu Liu, Ningning Xia* [7]
- 14.20 **Independence tests in the presence of measurement errors: An invariance law** *Jinlin Fan, Yaowu Zhang, Liping Zhu* [8]
- 14.30 **Recent advances on eigenvalues of matrix-valued stochastic processes** *Jian Song, Jianfeng Yao, Wangjun Yuan* [9]
- 14.40 **An overview on the progeny of the skew-normal family—A personal perspective** *Adelchi Azzalini* [10]

Short break

- 15.00** **Growth curve mixture models with unknown covariance structures** Yating Pan, Yu Fei, Mingming Ni, Tapio Nummi, *Jianxin Pan* [11]
- 15.10** **Robust density power divergence based tests in multivariate analysis: A comparative overview of different approaches** Ayanendranath Basu, Soumya Chakraborty, *Abhik Ghosh*, Leandro Pardo Pre [12]
- 15.20** **Recent advances in shrinkage-based high-dimensional inference** Olha Bodnar, *Taras Bodnar*, Nestor Parolya Presnter [13]
- 15.30** **Advanced topics in Sliced Inverse Regression** Stéphane Girard, *Hadrien Lorenzo*, Jérôme Saracco [14]
- 15.40** **On simultaneous best linear unbiased prediction of future order statistics and associated properties** Narayanaswamy Balakrishnan, *Ritwik Bhattacharya* [15]

Short break

- 16.00** **A short history of statistical association: From correlation to correspondence analysis to copulas** Carles M. Cuadras, *Michael Greenacre* [16]
- 16.10** **Duality for real and multivariate exponential families** *Gérard Letac* [17]
- 16.20** **Principal component analysis and clustering on manifolds** Kanti V. Mardia, *Henrik Wiechers*, Benjamin Eltzner, Stephan F. Huckemann [18]
- 16.30** **Conditional specification of statistical models: Classical models, new developments and challenges** Barry C. Arnold, *José María Sarabia* [19]

Break

- 17.10** **A tribute to P.R. Krishnaiah**, Zhidong Bai, *Jack W. Silverstein* [20]
- 17.20** **Recent developments in high-dimensional inference for multivariate data: Parametric, semiparametric and nonparametric approaches** Solomon W. Harrar, *Xiaoli Kong* [21]

- 17.30** **An overview of tests on high-dimensional means** *Yuan Huang, Changcheng Li, Runze Li, Songshan Yang* [22]
- 17.40** **On distance-type Gaussian estimation** *Elena Castilla, Konstantinos Zografos* [23]
- 17.50** **From multivariate to functional data analysis: Fundamentals, recent developments, and emerging areas** *Yehua Li, Yumou Qiu, Yuhang Xu* [24]
- 18.00** **A slice of multivariate dimension reduction** *R. Dennis Cook* [25]
- 18.10** **Concluding remarks**