18TH ANNUAL MEETING OF THE BELGIAN STATISTICAL SOCIETY

Spa, (13) 14-15 October 2010

The preliminary program of the next meeting of the Belgian Statistical Society (BSS 2010) is now available on the conference web-site: http://www.sbs-bvs.be/

Wednesday 13th October (Young Statisticians Afternoon)

13h30 Registration and welcome

14h00 Contributed talks young statisticians

- Teshome Birhanu (UH) *Doubly robust multiple imputation*
- El Maâti Allaoui (ULB) *Robust cross-checking estimators for the two parameter Weibull distribution*
- Germain Van Bever (ULB) *TBA*
- Maik Schwarz (UCL) *Adaptive estimation by model selection in a Gaussian sequence model*

15h30 Break

15h50 Contributed talks young statisticians

- Yves Dominicy (ULB) *The method of simulated quantiles*
- Tim De Craecker (UGent) *Causal powers and actual causation in the sufficient cause framework*
- Cédric Taverne (UCL) *How to reinforce the stated preference methods using the potential of computer based questionnaires?*
- Jingky P. Lozano (Göttingen) *A generalized method for analyzing genetic main effects and epistasis among candidate genes using parent-offspring trios*  

17h20 Break  

17h40 Quetelet Session  

19h00 Dinner  

**Thursday, 14th October**  

8h30 Registration  

9h30 Welcome  

9h40 Invited talk by Prof. Simon Tavaré (University of Cambridge)  
*Accounting for interactions among covariates in regression problems: methods and examples from genome-wide association studies*  

10h30 Break  

10h50 Contributed talks  

**Quetelet**  

- Bernard Francq (UCL) *How to accept the equivalence of two measurement methods? Comparison and improvements of the Bland and Altmans approach and errors-in-variables regression*  

- Joris Menten (ITM/KUL) *Estimation of intervention effects from ELISA data without explicit cut-offs using a bayesian hidden Markov approach*
- Tom Loeys (UGent) A joint modeling approach for reaction time and accuracy in psycholinguistic experiments

Methodology

- Jan Johannes (UCL) Functional linear instrumental Regression
- Kukatharmini Tharmaratnam (KUL) Robust model selection for additive penalized regression splines models
- Christel Ruwet (ULg) Robustness in ordinal regression

12h05 Lunch

14h00 Invited talk by Prof. Winfried Stute (JLU Giessen)
Shot noise effects in Economics: Financial an statistical aspects

14h50 Contributed talks

Biostatistics

- Jozefien Buyze (UGent) An instrumental variables approach for the performance of health care centers in terms of a survival outcome
- David Magis (ULg) Identification of differential item functioning by logistic regression: application to intellectual disability data
- Anyiawung Forcheh (KUL) A Meta-analytic approach for the analysis of Illumina data

Methodology

- Koen Mahieu (KUL) Robust forecasting of nonstationary time series
- Christopher Bruffaerts (ULB) The robustness of the unconditional hyperbolic α-quantile estimator of efficiency
- Marjolein Crabbe (KUL) A comparison of two-stage segmentation methods for choice-based conjoint data: A simulation study

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16h05 Break

16h35 Posters

17h35 Break

18h00 General meeting of the Belgian Statistical Society

19h00 Dinner

**Friday, 15th October**

9h00  Invited talk by Prof. Goran Peskir (University of Manchester)

*A Duality Principle for the Legendre Transform and Nash Equilibrium*

9h50  Contributed talks

**Stochastic processes**

- Tetyana Kadankova (VUB) *Two-sided exit problems for several classes of stochastic processes*

- Julien Hunt (UCL) *Minimal entropy martingale measure in a semi-Markov regime switching Cox-Ross-Rubinstein model*

**Methodology**

- Ruth Nysen (UH) *Testing goodness-of-fit of parametric models for censored data*

- Jean-Marc Freyermuth (UCL) *Spectral density estimation with tree structured wavelets*

10h40 Break

11h10 Contributed talks
Biostatistics
- Maarten Bekaert (UGent) *On model selection in causal inference*
- Thomas Neyens (UH) *A generalized Poisson-Gamma model for spatially overdispersed data*

Methodology
- Maarten Jansen (ULB) $L_0$ penalized criteria for variable selection under sparsity
- Kalliopi Mylona (UA) Penalized least squares for models with correlated responses

12h00 Lunch.

13h00 Invited talk by Prof. Els Goetghebeur (UGent)
*The hopes and hazards with instrumental variables for causal inference from observational data*

14h00 Social program

Posters
- Vishva Danthurebandara (KUL) *Sequential choice designs to estimate the distribution of willingness-to-pay*
- Dina Vanpaemel (KUL) *A deterministic algorithm for multivariate $S$-estimators of location and scatter*
- Rachida El Mehdi (UCL) *Stochastic frontier analysis with copulas and application to Moroccan municipalities*
- Jan De Neve (UGent) *Semiparametric regression models for $P[Y \leq Y']$*
- Achmad Efendi (KUL/UH) Pseudo-likelihood estimation for a combined Gamma frailty and normal random-effects model for repeated, overdispersed time-to-event data

- Mohammed Rida Soumali (UCL) Study of the influence function in partially linear regression

- Rudolf Schenk (UCL) On rate optimal local estimation in functional linear model

- Geraldine Laurent (ULg) Introduction of the asymptotic study of the estimation of the error distribution in right censored and selection biased regression models

- Dean Barron (Twobluecats.coms) Kolmogoroff-Smirnoff with a twist, theory and data analysis

- Mohamad Bolbolian Ghalibaf (Ferdowsi University of Mashhad, Iran) Aspects of dependence in Cuadras-Auge family

- M. Roozbeh (Mashhad, Iran) Bayesian semiparametric regression

- Hassan Pazira (Teheran) A new statistic for detecting outliers in exponential case

- Hakim Bekrizadeh (University of Ilam, Iran) Economic and social factors affecting decline in academic achievement by providing a statistical model