

# 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 13<sup>th</sup> 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*

17h20Break

17h40Quetelet Session

19h00Dinner

### **Thursday, 14<sup>th</sup> 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*

10h30Break

10h50Contributed 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*

12h05Lunch

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

14h50Contributed 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  $\alpha$ -quantile estimator of efficiency*
- Marjolein Crabbe (KUL) *A comparison of twostage segmentation methods for choice-based conjoint data: A simulation study*

16h05 Break

16h35 Posters

17h35 Break

18h00 General meeting of the Belgian Statistical Society

19h00 Dinner

### **Friday, 15<sup>th</sup> 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*

12h00Lunch.

13h00Invited 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*