

# 16TH ANNUAL MEETING OF THE BELGIAN STATISTICAL SOCIETY

**Wépion-Namur, (15) 16-17 October 2008**

The final program of the next meeting of the Belgian Statistical Society (BSS 2008) will be available on the conference web-site:

<http://cud.fundp.ac.be/BSS2008/program.html>

## **Wednesday 15<sup>th</sup> October** (Young Statisticians Afternoon)

13h30 Registration and welcome

14h30 *Symbolic data in statistics : a tutorial (1)*  
Brito Paula (Porto)

15h30 Poster session (1)

- *Adapting the cancer phase II design for a better assessment of therapeutic activity: application to malignant mesothelioma*, Julie Francart, Evelien Vaes, Annie Robert
- *Nonparametric estimation of mean and dispersion functions in extended Generalized Linear Models*, Ilaria Prosdocimi, Irène Gijbels
- *Testing the fit of a model using an order selection test under missingness*, Fabrizio Consentino, Gerda Claeskens
- *Variable selection for partial wavelet models*, Huijuan Ding, Gerda Claeskens
- *Manipulation of Kohonen's map for Symbolic data*, Joffray Baune
- *Random Sampling and Parametric Spectral Estimation*, Maik Schwarz

- *Competing risks in survival analysis: predictors of cardiovascular events in renal transplant recipients*, Séverine Henrard, Annie Robert
- *A new method for clustering interval symbolic data - Application to medical data*, Nathanael Kasoro
- *Tree-Structured Wavelet Estimation of Spectra of Replicated Time Series in a Mixed Effects Model*, Jean-Marc Freyermuth, Hernando Ombao, Rainer von Sachs

16h30 Coffee & Refreshment

17h30 Poster session (continuing)

18h30 Quetelet Prize (Presentation of best Master and Ph.D. projects)

20h00 Dinner and social activities

#### **Thursday, 16<sup>th</sup> October**

09h00 *Symbolic data in statistics : a tutorial (2)*  
Brito Paula (Porto)

09h00 Welcome for BSS participants

09h50 Opening of the conference

10h00 BSS 2008 Invited speaker : Pascale Kuntz (Nantes)  
*Graphs and clustering : applications to Middle Age data.*

10h50 Parallel sessions

#### Methodological Session I:

- *S-Estimation for Penalized Regression Splines*,  
Kukatharmini Tharmaratnam, Gerda Claeskens, Christophe Croux,  
Matias Salibian-Barrera

- *The Generalized QAMML Families Of Probability Distributions For Functional Data,*  
Etienne Cuvelier, Monique Noirhomme-Fraiture
- *A Comparison of Different Bayesian Design Criteria to Compute Efficient Conjoint Choice Experiments,*  
Jie Yu, Peter Goos, Martina Vandebroek

Biostatistic Session I:

- *A High-Dimensional Joint Model for Longitudinal Endpoints of Different Type,*  
Christel Faes, Marc Aerts, Helena Geys, Geert Molenberghs, Greet Teuns
- *Estimation of marginal structural survival models in the presence of competing risks,*  
Maarten Bekaert, Stijn Vansteelandt, Karl Mertens
- *Prognostic and predictive factors analysis based on two pooled EORTC clinical trials in patients with high grade Soft Tissue Sarcoma (STS) and treated by adjuvant chemotherapy (adCT),*  
Monia Ouali, Martine Van Glabbeke, A. LeCesne

11h50 B-Enbis Invited speaker : David Steinberg (Tel Aviv University)  
*Computer Experiments*

12h45 Lunch

14h00 BSS 2008 Invited speaker : Frank den Hollander (Leiden)  
*Percolation*

14h50 Parallel sessions

Probability and Statistics Session:

Invited speaker : Uwe Einmahl (ULB)  
*A generalization of the law of the iterated logarithm,*

- *An Extended Panjer Family of distributions, with applications,*  
Maud Gathy

- *General Multivariate Skewing Mechanisms*,  
Christophe Ley, Davy Paindaveine

Quetelet Session:

Quetelet Society Invited speaker : Philippe Baret (UCL)

*Genomes, microarrays and phylogenomics : new challenges for statisticians*

- *Detection of Differentially Expressed Genes by Scanning at Multiple PMT Voltage*,  
Jerme Ambroise, Bertrand Bearzatto, Sébastien Van der Vorst, Anne-France Dekairelle, Jean-Luc Gala, Annie Robert, Benoit Macq
- *Classification of cell lines based on response to Treatment using PAMCHIPS*,  
Arthur Gitome, Adetayo Kasim, Dan Lin, Suzy Van Sanden, Ziv Shkedy

16h00 Coffee break

16h20 Parallel sessions

Biostatistic Session II:

- *Ultrasonic Characterization of Cancer versus Non Cancer Tissue*,  
Evelien Vaes, Dror Nir, Rina Nir, Annie Robert
- *Designing a sequentially randomised study with adherence enhancing interventions for the first line treatment of diabetes*,  
Jozefien Buyze, Els Goetghebeur
- *Identifying Missing Links in Pneumonic Plague Epidemics using a Prior-based EM-algorithm*,  
Niel Hens, Jacco Wallinga, Teele Tamme

Methodological Session II:

- *Positive Quadrant Dependence Tests for Copulas*,  
Dominik Szanjder, Irène Gijbels, Marek Omelka

- *Design criteria to develop choice experiments to measure accurately the willingness-to-pay,*  
Bart Vermeulen, Peter Goos, Riccardo Scarpa, Martina Vandebroek

17h20 BSS Biostatistic Section Invited speaker : Stéphane Laurent (UCL)  
*Frequentist validity of Bayesian methodology for clinical trials*

Poster Session (continuing)

20h00 Conference Dinner

### **Friday, 17<sup>th</sup> October**

08h00 Breakfast

9h00 IAP Invited speaker : Vladimir Spokoiny (Berlin)  
*Non parametric statistics (to be determined).*

09h50 Parallel sessions

#### Biostatistic Session III:

- *Testing for Trend in Dose-Response Microarray Experiments: Gene Expression Analysis in Striatum after Acute Treatment with Antipsychotics,*  
Setia Pramana, Philippe Haldermans, Dan Lin, Ziv Shkedy
- *A new statistical method for evaluating External Quality Assessment,*  
Wim Coucke, Marjan Van Blerk, Jean-Claude Libeer, Adelin Albert
- *Estimation of calibration interval for unknown concentration in a spiked in cDNA microarray experiment: Nonlinear mixed-effects models approach,*  
Pushpike J. Thilakarathne, Geert Verbeke

#### Methodological Session III:

- *Crossed Random Effects Models for the Detection of Differential Item Functioning in Psychometrics,*  
David Magis, Sofie Frederickx, Francis Tuerlinckx, Paul De Boeck

- *B-splines regression smoothing and difference type of penalties,*  
Anneleen Verhasselt, Irène Gijbels
- *Regularly varying time series of random fields,*  
Thomas Meinguet, Johan Segers

10h50 Coffee break

11h10 Parallel sessions

Methodological Session IV:

- *A Multiresolution Approach to Time Warping achieved by a Sequential Bayesian Fitting Strategy,*  
Leen Slaets, Gerda Claeskens
- *Structural tests in regression on functional variable : Theoretical background, Bootstrap methods and Applications.,*  
Laurent Delsol, Frdric Ferraty, Philippe Vieu

Biostatistic Session IV:

- *The use of HMM-based feature selection to classify array CGH data,*  
Anneleen Daemen, Olivier Gevaert, Karin Leunen, Eric Legius, Ignace Vergote, Bart De Moor
- *A Bayesian approach to identify overlapping peptides in a mass spectrum,*  
Qi Zhu, Dirk Valkenburg, Adetayo Kasim, Ivy Jansen, Thomasz Burzikowski
- *Bayesian adaptive clinical trials: calibration, optimization and benefits,*  
Francois Vandenhende, Julien Vanwinsberghe

12h10 Quetelet Society Invited speaker : NN  
Title to be communicated by Quetelet Society

12h50 Official closing of the conference

13h10 Lunch