IWSM 2007

Programme

1 – 6 July 2007
Sunday 1st July

9:00 – 18:00 Short Course: *Models for Repeated Discrete Data*, by Geert Molenberghs and Geert Verbeke.

17:00 – 19:00 IWSM Registration: Casa de la Convalescència

19:00 Informal gathering
Monday 2\textsuperscript{nd} July

8:00 – 9:00 Registration: \textit{Casa de la Convalescència}

9:00 – 9:30 \textbf{Opening Concert.} Gurdeep Stephens (soprano) and Michael Greenacre (piano).

9:30-10:30 Invited Speaker(\textasteriskcentered). \textit{Chair: Pere Puig}

\textbf{10:30 – 11:00 Coffee/Tea Break}

11:00 – 12:00 Contributed Session. \textit{Chair: Joan del Castillo}
- C. Faes, M. Aerts, H. Geys, G. Molenberghs and G. Teuns: A high-dimensional joint model for longitudinal endpoints of different type.
- V. Jowaheer and B. Sutradhar: Stationary versus non-stationary correlation models for familial longitudinal count data.

12:00 – 13:00 Invited Speaker. \textit{Chair: Brian Marx}

\textbf{13:00 – 13:15 Statistical Modelling Society AGM}

\textbf{13:15 – 15:00 Lunch}

15:00 – 16:00 Contributed Session. \textit{Chair: John Hinde}
- S. Greven, C. Crainiceanu, A. Peters and H. Küchenhoff: Likelihood ratio testing for zero variance components in linear mixed models.
- M. Alfò and A. Maruotti: Semiparametric models for longitudinal binary responses with attrition.

\textbf{16:00-16:20 Coffee/Tea Break}

16:20 – 17:40 Contributed Session. \textit{Chair: Iain Currie}
- E. Holian and J. Hinde: Mixture-regression cluster model applied to longitudinal microarray experiments
- A. de Falguerolles: From Dunkirk to Barcelona with GLIMR. A tribute to least-squares.

\textbf{19:00 Evening: Welcome Reception in the “Saló de Cent” (Barcelona’s city council)}

(*) presenters are in bold font
Tuesday 3rd July

9:00 – 10:20 Contributed Session. Chair: Youngjo Lee
- F. Consentino and G. Claeskens: Model selection with missing covariates under ignorable missingness.
- R. Tsonaka, D. Rizopoulos, G. Verbeke and E. Lesaffre: Marginalized semiparametric shared parameter models for incomplete ordinal responses
- C.G. Camarda, P.H.C. Eilers and J. Gampe: Modelling general patterns of digit preference.

10:20 – 10:50 Coffee/Tea Break

10:50-11:50 Invited Speaker. Chair: Elías Moreno
G. Casella, F.J. Girón and E. Moreno: Consistent variable selection.

11:50 – 13:10 Contributed Session. Chair: Stefan Lang
- Y.C. MacNab: Bayesian multivariate disease mapping and ecological models with errors-in-observables: Mapping disability adjusted life years.
- P. Lambert and P.H.C. Eilers: Bayesian density estimation from grouped observations.

13:10 – 15:00 Lunch

15:00 – 16:00 Contributed Session. Chair: Francesco Bartolucci
- A. van den Hout and F.E. Matthews: A hidden illness-death model to estimate life expectancies.
- F. Bartolucci and M. Lupparelli: The multilevel latent Markov model.

16:00 – 16:30 Coffee/Tea Break

16:30 – 17:30 Contributed Session. Chair: John Newell
- G. Mateu-Figueras and J. Daunis-i-Estadella: Balances versus amalgamations in compositional data with an application in welfare research
- C. Barceló-Vidal, L. Aguilar and J.A. Martín-Fernández: Compositional time series: A first approach.
- M.J. Brewer, D. Tetzlaff, S. Waldron and C. Soulsby: Temporal smoothing of compositional data on water quality

17:30 – 19:00 Poster Session (see the last section of this document)
Wednesday 4th July

9:00 – 10:20 Contributed Session. **Chair: Vicente Núñez-Antón**
- **J. Hofrichter** and H. Fried: Change point detection for panel data models.
- **P. Wilson**: A hybrid test for non-nested models.
- **M. Greenacre**: Diagnosing models from maps based on weighted logratio analysis.

10:20 – 10:50 Coffee/Tea Break

10:50-11:50 Invited Speaker. **Chair: Lola Ugarte**
**D. Pfeffermann**: Modelling of complex survey data, Why is it different and what can be done about it?

11:50 – 12:50 Contributed Session. **Chair: Ying MacNab**
- **S. Barry** and A. Bowman: Modelling longitudinal spatial curve data.

13:00 – 14:45 Lunch

14:45 – 20:00 Excursion to Montserrat
Thursday 5th July

9:00 – 10:20 Contributed Session. **Chair: Carmen Cadarso**
- **G.L. Silva** and M.A. Amaral-Turkman: Additive survival models with shared frailty.
- **C. Serrat**, J.A. Huertas and G. Gómez: Joint modelling of a longitudinal variable and a time to event data: Methodological and computational issues.
- **D. Rizopoulos**, G. Verbeke and E. Lesaffre: Joint modelling of time-to-event and longitudinal binary data with excess zeros.

10:20 – 10:50 Coffee/Tea Break

10:50-11:50 Invited Speaker. **Chair: Guadalupe Gómez**
**N. Keiding**: Design and analysis of time-to-pregnancy.

11:50 – 13:10 Contributed Session. **Chair: Jeff Simonoff**
- **N. Porta**, M.L. Calle, G. Gómez and N. Malats: Regression modelling of competing risks in a bladder cancer study
- **J. Orbe** and **V. Núñez-Antón**: Censored partial regression models and the study of the determinants of survival of Russian commercial banks.
- **G. MacKenzie** and I.D. Ha: Modelling survival data with crossing hazards.
- **G. Gómez** and O. Julià: Inverse weighted estimators when there is double censoring.

13:10 – 15:00 Lunch

15:00- 16:00 Contributed Session. **Chair: Herwig Friedl**
- **H. Wagner**, R. Tüchler and S. Frühwirth-Schnatter: Auxiliary mixture sampling for non-normal data.

16:00 – 16:30 Coffee/Tea Break

16:30 – 17:30 Contributed Session. **Chair: Marta Pérez-Casany**
- **D. Karlis**, G.J. Sermaidis and T. Brijs: Discrete valued time series models for examining weather effects in daily accident counts

Conference Dinner - Restaurant Marina Moncho's
Friday 6th July

9:30 – 10:30 Contributed Session. Chair: Juan Romo
- L.C. Pérez-Ruíz and G. Escarela: A discretised-copula-based transition model for binary longitudinal data
- J. A. Brown, W.S. Rea and M. Reale: Modeling long memory time series: the Shihua Cave speleothems

10:30 – 11:00 Coffee/Tea Break

11:00-12:00 Invited Speaker. Chair: Anna Espinal
S. N. Wood: Generalized additive smooth modelling.

12:00 – 13:20 Contributed Session. Chair: Paul Eilers
- J. Kirkby and I. Currie: Smooth models of mortality with period shocks.
- M. Aerts, K. Bollaerts, N. Hens, Z. Shkedy, C. Faes, P. van Damme and P. Beutels: Direct models for multiple infection measurements of antibody levels
- P.H.C. Eilers: The smooth complex logarithm model for quasi-periodic signals

13:20 Closing & Lunch
Poster session

- T. Adamski et al.: A multivariate analysis of DH lines experiments repeated over a period of years
- J. Almansa et al.: Analyzing Mental Comorbidity through LCA. Results of the ESEMeD project
- A.M. Alonso et al.: Time series classification based on functional depth
- A. Areira et al.: Modelling of local elections in Portugal
- I. Arostegui and V. Núñez-Antón: Alternative modelling approaches for the SF-36 health questionnaire
- A. Assaf and K.M. Matawie: A Bayesian approach to the estimation of technical efficiency in health care foodservice operations
- A. Barber et al.: A Bayesian hierarchical spatial model for the bioclimatic classification of Cyprus island
- A. Batchelor et al.: Nonlinear discrete-time hazard models for the rate of first marriage
- M. Bécue et al.: Mixed text and data mining through a principal axes method. Application to legal documents
- M. Blagojevic: CTDL-Positive stable Frailty Model
- A. Blance et al.: Beyond Kappa: Use of multifaceted RASCH analysis and multilevel modelling to investigate observer effects
- H. Bolfarine: Asymmetric distributions generated by the normal distribution function
- F. Botella et al.: Spatio-Temporal Bayesian Model for studying waterbird biodiversity in artificial ponds
- S. Broner and P. Delicado: Explaining electoral participation by an economic capacity index in Barcelona
- A. Buil et al.: Mixed-Models for genetic linkage analysis of quantitative traits: analysis of APTT in the GAIT project
- R. Caballero-Águila et al.: Estimation of signals transmitted by different randomly delayed sensors using covariance information
- R. Caballero-Águila et al.: Estimation from observations with randomly missing signals using an innovation approach
- A.I. Carita et al.: Following brake reaction time in total knee arthroplasty: analysis of variance for repeated measures
- B. Ceranka and M. Graczyk: Note on A-optimal chemical balance weighing design
- B. Ceranka and M. Graczyk: Optimum chemical balance weighing design for p+1 objects
- S. Conde and G. MacKenzie: Modelling high dimensional sets of binary co-morbidities
- D. Conesa et al.: Bayesian Markov switching models for epidemiologic surveillance
- C. Cordeiro and M.M. Neves: Bootstrap prediction intervals: a case-study
- M. Correal: A model for a system of flow rivers with non-linear behavior
- A.H.M.A. Cysneiros et al.: Modified profile likelihood for the Birnbaum-Saunders distribution
- J. Einbeck et al.: Smoothing, sampling, and Basu’s elephants
- A. Esteve et al.: Adaptive distance-based classification
- J.S. Fenlon and M.J. Faddy: Modelling and analysis of superparasitism data
• M. Friendly and J. Fox: Visualizing hypothesis tests in multivariate linear models
• M.J. García-Ligero et al.: Image estimation from signal-dependent noise observations
• E. González-Dávila et al.: Small area estimation using Spanish Labour Force Survey in Canary Islands
• A. Grané and H. Veiga: Conditional heteroscedasticity or stochastic volatility in financial risk management?
• L Grilli and C. Rampichini: Endogeneity issues in mixed models
• A. Guolo: A flexible approach to measurement error correction in case-control studies
• K. Heiner and J. Hinde: Generalized Linear Models for assessing performance
• A. Hermoso-Carazo and J. Linares-Pérez: Recursive estimation of the uncertainty probability in nonlinear systems with uncertain observations
• C.-H. Hsu et al.: A Weighted Kaplan-Meier approach for estimation of recurrence of colorectal adenomas
• M. Jorgensen: Multivariate Mixture Models in official statistics
• Z. Kaczmarek et al.: Some regression methods in evaluation of genotypes in series of experiments
• I. Kosmidis: Penalized likelihood for a three-parameter Rasch Model
• E. Kulinskaya and R.G. Staudte: Cochran's Q-test for variance stabilized effect size estimates and a random effect size model
• D.-J. Lee and M. Durbán: Smoothing mixed models for overdispersed spatial count data
• J. Lynch and G. MacKenzie: Analysis of breast cancer survival in local health Authorities
• C. Machado et al.: An analysis of deprivation in Portugal based on Bayesian latent class models
• P. Mair and A. Zeileis: Out-of-sample Bootstrap tests for non-nested models
• J.A. Martín-Fernández et al.: Compositional modelling of sediment formation at the surface of Mars
• Mejza and S. Mejza: On split plot type experiments with subsamples
• S. Mejza et al.: On a modelling environmental indexes
• A. Mercatanti: Identifiability of causal models with ignorable assignments and non-ignorable treatments
• J. Newell and J. Einbeck: A comparative study of nonparametric derivative estimators
• M.I. Ortego, and J.J. Egozcue: Copulas and their extremal transformations
• J. Palarea-Albaladejo et al.: A convenient device for replacing rounded zeros in compositional data: aln model
• G.A. Paula and F.J.A. Cysneiros: Local Influence under parameter constraints
• D. Peng and G. MacKenzie: On the analysis of censored reliability data
• D. Pereira and J.T. Mexia: Overview of Joint Regression Analysis
• N. Perez-Alvarez et al.: Study of the 1st, 2nd and 3rd guided interruption periods in an HIV clinical trial
• C. Pfeifer et al.: Damage detection of structures by analyzing embedded time series of vibration signals
• F.Z.Poleto et al.: A product-multinomial framework for categorical data analysis with missing responses
• C. Rivero and T. Valdes: Robust estimation of linear models with grouped data and arbitrary errors with unknown scale parameter
• P.C. Rodrigues and J.A. Branco: Principal Component Analysis of electoral data
• M.X. Rodríguez-Álvarez et al.: Comparing different approaches to regression analysis of Receiver Operating Characteristic curves. An application to endocrinology data
• J.A. Santos and M.M. Neves: A local maximum likelihood estimator for Logistic regression
• I. Solis-Trapala et al.: Statistical modelling of development of executive function in early childhood
• K. Stefanova et al.: Spatial modelling of field experiments: Sample variogram and enhanced diagnostics
• G. Streftaris and B.J. Worton: Hierarchical and empirical Bayes estimators in the analysis of insurance claims
• J. Teles and M.A. Amaral-Turkman: Bayesian model selection criteria: a comparative study through simulation
• R. Tolosana-Delgado et al.: A Bayesian alternative to indicator Kriging
• O. Valero et al.: Study of ewe's milk composition using a combination of multivariate techniques and linear mixed models with random effects
• C. Varin and C. Czado: Pairwise likelihood inference in dynamic models for longitudinal ordinal outcomes
• R.M. West and M.S. Gilthorpe: Use of functional data analysis and longitudinal latent class analysis to investigate the developmental origins of disease
**El cant dels ocells**  
Cançó Popular Catalana  
(popularitzada per Pau Casals)

En veure despuntar  
el major lluminar  
en la nit més ditxosa,  
els ocellets, cantant,  
a festejar-lo van  
amb sa veu melindrosa.

**Song of the Birds**  
Popular song (translation - Gurdeep Stephens)  
**Pau Casals** has made it well known  
around the world, and it has  
become an emblematic tune  
of our country

*It was a wondrous sight*  
*Darkness had turned to light*  
*On that night most enchanting*  
*The nightingales gave voice*  
*And thus we did rejoice*  
*In their melodies entrancing*