

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 2nd July

8:00 – 9:00 Registration: **Casa de la Convalescència**

9:00 – 9:30 **Opening Concert. Gurdeep Stephens (soprano) and Michael Greenacre (piano).**

9:30-10:30 Invited Speaker(*). **Chair: Pere Puig**

G. Molenberghs, T. Burzykowski, A. Alonso, P. Assam, A. Tilahun, and M. Buyse: *The Meta-analytic Framework for the Evaluation of Surrogate Endpoints in Clinical Trials.*

10:30 – 11:00 Coffee/Tea Break

11:00 – 12:00 Contributed Session. **Chair: Joan del Castillo**

- **A. Komarek** and E. Lesaffre: *Generalized linear mixed model with a flexible random-effects distribution.*
- **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. **Chair: Brian Marx**

M.J. Bayarri, J. Berger, F. Liu, R. Paulo and J. Sacks: *Statistical issues in the utilization of computer models.*

13:00 – 13:15 **Statistical Modelling Society AGM**

13:15 – 15:00 Lunch

15:00 – 16:00 Contributed Session. **Chair: John Hinde**

- **S. Greven**, C. Crainiceanu, A. Peters and H. Küchenhoff: *Likelihood ratio testing for zero variance components in linear mixed models.*
- M. Alfó and **A. Maruotti**: *Semiparametric models for longitudinal binary responses with attrition.*
- R. Penman, **G. Heller** and J. Tyler: *Modelling IVF data using an extended continuation ratio random effects model.*

16:00-16:20 Coffee/Tea Break

16:20 – 17:40 Contributed Session. **Chair: Iain Currie**

- **E. Holian** and J. Hinde: *Mixture-regression cluster model applied to longitudinal microarray experiments*
- **M.J. Costa** and J. E. H. Shaw: *Parameterization and penalties in spline models.*
- **I.D. Ha** and Y. Lee: *On likelihood estimation in semiparametric frailty models.*
- **A. de Falguerolles**: *From Dunkirk to Barcelona with GLIMR. A tribute to least-squares.*

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**

- **R. Ditttrich**, B. Francis, R. Hatzinger and W. Katzenbeisser: *On the treatment of missing observations in paired comparisons experiments.*
- **F. Consentino** and G. Claeskens: *Model selection with missing covariates under ignorable missingness.*
- **R. Tsonaka**, D. Rizopoulos, G. Verbeke and E. Lesaffre: *Marginalized semi-parametric 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. Li**, J.M.G. Taylor and M.R. Elliott: *Assessing surrogacy in the counterfactual framework using Bayesian models.*
- **T. Economou**, T.C. Bailey and Z. Kapelan: *Bayesian modelling of time aggregated water pipe bursts with a zero-inflated, non-homogeneous Poisson process.*
- **Y.C. MacNab**: *Bayesian multivariate disease mapping and ecological models with errors-in-covariates: 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**

- M. Cazzaro, R. Colombi and **S. Giordano**: *Testing Markov chain lumpability.*
- **A. van den Hout** and F.E. Matthews: *A hidden illness-death model to estimate life expectancies.*
- F. Bartolucci and **M. Lupporelli**: *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**

- **I.L. Dryden**, B. Li and L. Shen: *Factored principal components analysis and likelihood ratio based face recognition.*
- **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**

- R. Giraldo, **P. Delicado** and J. Mateu: *Ordinary kriging for functional data.*
- **S. Barry** and A. Bowman: *Modelling longitudinal spatial curve data.*
- **M.D. Ugarte**, A.F. Militino and T. Goicoa: *MSE of the log-risk predictor in a mixed Poisson model with spatial dependence.*

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.*
- **A.L. Papoila** and C.S. Rocha: *Modelling survival data using Generalized Additive Models with flexible link.*
- **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**

- **F. Vaida** and L. Liu: *Fast implementation for Mixed Effects Models with censored response.*
- S.J. Chua, H.K. Finselbach and **A.J. Watkins**: *Small sample properties of maximum likelihood estimators for type II censored data.*
- **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**

- G. Heller, **M. Stasinopoulos** and R. Rigby: *Randomly Stopped Models.*
- **M. Cruyff**, U. Böckenholt and P. van der Heijden: *A ZIP model accounting for response bias in randomized response.*
- **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*
- **A. M. Alonso**, D. Peña and J. Rodríguez: *Forecasting the Spanish mortality rates.*
- **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**

- P.H.C. Eilers, J. Gampe, **B.D. Marx**, R. Rau: *Modulation models for seasonal incidence tables.*
- 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 nightengales gave voice
And thus we did rejoice
In their melodies entrancing*