

23rd International Workshop on Statistical Modelling,
Utrecht, 7-11 July 2008.

PROGRAM

Roze Zaal UMC/Heymans van den Bergh gebouw, University Campus de Uithof, Utrecht

Monday 7 July 2008

- 8.00 – 9.00 Registration
- 9.00 – 9.10 Opening
- 9.10 – 10.10 Invited speaker. Chair: Peter van der Heijden
Gerhard Tutz (Ludwig-Maximilian University Munich, DE):
Strategies in Semiparametrically Structured Regression
- 10.10 – 10.40 Coffee/Tea break
- 10.40 – 11.40 Contributed Session. Chair: Jutta Gampe
Kaatje Bollaerts (BE), Marc Aerts, Christel Faes, Koen Grijspeerdt, Jeroen Dewulf & Koen Mintiens: *Dose-Illness Models for Human Salmonellosis Based on Outbreak Data*
Robert Gilchrist (UK), Alim Kamara & Janet Rudge: *An Application of GAMLSS: An Insurance Type Model for the Health Cost of Cold Housing*
Inbal Yahav (US) & Galit Shmueli: *Reducing Error by Increasing Focus: Multivariate Monitoring of Biosurveillance Data*
- 11.40 – 12.40 Contributed Session. Chair: Brian Marx
Christiane Belitz (AT) & Stefan Lang: *Complex Additive Penalties for Generalized Structured Additive Regression*
Norma Coffey (IRL), Kevin Hayes, Orna Donoghue & Andrew J. Harrison: *Estimating Functional Principal Components using the Linear Mixed Effects Model*
Iain Currie (UK): *Smoothing Overparameterized Regression Models*
- 12.40 – 12.55 Statistical Modelling Society
- 13.00 – 14.00 Lunch
- 14.00 – 15.20 Contributed Session. Chair: Maria Durban
Tatsuhiko Anzai (JP), Hideyasu Shimadzu & Toshiki Endo: *Modelling Duration of Necessary and Non-necessary Activities in Daily Life: Fitting Mixture Models to Japanese Time Use Survey Data*
Gianluca Baio (UK) & Marta Blangiardo: *Bayesian Hierarchical Model for the Prediction of Football Results*
Johan J. de Rooi (NL), Paul H. C. Eilers & Laurence E. Frank: *Smoothing Zeros and Small Counts in Meta-Analysis of Clinical Trials*
Julie Sleep (AUS) & Irene Hudson: *Comparison of Self-Organizing Maps, Mixture, K-means and Hybrid Approaches to Risk Classification of Passive Railway Crossings*
- 15.20 – 15.50 Coffee/Tea/Refreshments break

15.50 – 16.50 Contributed Session. Chair: Bob Gilchrist

Jeanine J Houwing-Duistermaat (NL), Andrea Callegaro, Marian Beekman, Eline P Slagboom & Hans C van Houwelingen: *Methods for Aggregation and Linkage Analysis of Human Longevity in Selected Families*

M.A. Jonker (NL), S. Bhulai & A.W. van der Vaart: *Correlated Gamma Frailty Model for Linkage Analysis on Twin Data with Application to Interval Censored Migraine Data*

Renee X. de Menezes (NL), Marten Boetzer, Melle Sieswerda, Claudia Gaspar, Riccardo Fodde & Judith M. Boer: *Integrated Statistical Analysis to Identify Associations Between DNA Copy Number and Gene Expression in Microarray Data*

16.50 – 17.30 Contributed Session. Chair: Gerhard Tutz

Ralph C.A. Rippe (NL), Paul H.C. Eilers & Jacqueline J. Meulman: *Models for Fluorescence Signals on SNP Arrays*

Hae-Won Uh (NL) & Paul H.C. Eilers: *Haplotype Frequency Estimation with the Penalized Composite Link Model*

18.00 – 20.00 Welcome Reception, Botanical Garden UU

Tuesday 8 July 2008

- 9.00 – 10.20 Contributed Session. Chair: Mikis Stasinopoulos
F. Bartolucci (IT) & I. L. Solis-Trapala: *A Multidimensional Latent Markov IRT Model*
Matthieu J.S. Brinkhuis (NL) & Gunter Maris: *Student Monitoring Using Chess Ratings*
David J. Hessen (NL): *Constant Latent Odds-Ratios Models and Marginal Maximum Likelihood Estimation*
Jesper Tijmstra (NL), Dave J. Hessen & Peter G.M. van der Heijden: *Testing Manifest Monotonicity and Weak Item Independence for the Constant Latent Odds-Ratios Model*
- 10.20 – 10.50 Coffee/Tea break
- 10.50 – 11.50 Invited speaker. Chair: Marc Aerts
Jean-Paul Fox (Twente University, NL): *Bayesian Item Response Models for Complex Survey Data*
- 11.50 – 12.50 Contributed Session. Chair: Jean-Paul Fox
M.J.L.F. Cruyff (NL), Ulf Bockenholt & Peter G.M. van der Heijden: *Analyzing Randomized Response Data using a Doubly Zero-Inflated Poisson Model*
Marianne Hubregtse (NL) & Maarten Cruyff: *Explaining Self-Protective "No"-Saying in Randomized Response*
Gerhard Neubauer (AT) & Gordana Djuras: *A Generalized Poisson Model for Underreporting*
- 12.50– 13.50 Lunch
- 13.50 – 15.10 Contributed Session. Chair: Bob Rigby
Silvia Cecere (BE) & Emmanuel Lesaffre: *On the Bayesian 2-stage Procedure for Parameter Estimation in Copula Models*
Anna Espinal (SP) & Pedro Puig: *On Parsimonious Higher-order Binary Markov Chain Models*
Bernhard Klingenberg (US): *Dose-response Modeling with Bivariate Binary Data Under Model Uncertainty*
Elly J.H. Korendijk (NL), Cora J.M. Maas, Mirjam Moerbeek & J. Hox: *The Robustness of the Parameters and Standard Error Estimates in Trials with Partially Nested Data. A Simulation Study*
- 15.10 – 15.40 Coffee/Tea/Refreshments break.
- 15.40 – 17.00 Contributed Session. Chair: Alan Agresti
Chaofeng Kou (UK) & Jianxin Pan: *Variable Selection in Joint Modelling of Mean and Covariance Structures for Longitudinal Data*
Indrajit Mitra: *An Estimator of the Variance of Measurement Error*
Helga Wagner (AUS) & Regina Tuchler: *Bayesian Estimation of Random Effects Models for Multivariate Responses of Mixed Data*
Paul Wilson (IRL): *The Dagnet Test: A New Approach to Choosing Between Models*

17.00 – 19.00 Poster Session

- Marc Aerts** (BE), Kaatje Bollaerts, Stefaan Ribbens, Yves Van der Stede, Ides Boone & Koen Mintiens: *Semi-parametric Regression to Identify Farms with High Salmonella Infection Burden*
- Fiona Boland** (IRL): *Hierarchical Generalised Linear Models Analysis of Bovine Tuberculosis on Milk Data*
- Paulo Canas Rodrigues** (SP) & Ana Teresa Lima: *Cd and Cu Migration During Electrodialysis: Biregessional Modelling*
- Ana Isabel Carita** (PT), Pedro Luis Marques & Filomena Vieira: *Logistic Regression Model: Continuous Independent Variables and Linearity in the Logit*
- Paula Rocha Chellini** (BR) & Arminda Lucia Siqueira: *Simulation-based Results for Bioequivalence Studies Using a 2x2 Crossover Design*
- S.J. Chua** (UK) & A.J. Watkins: *The Reliability of Type II Censored Reliability Analyses for Weibull Data*
- Susana Conde Llinares** (IRL) & Gilbert MacKenzie: *On Modelling Correlated Binary Co-Morbidities*
- T. Economou** (GR), T.C. Bailey & Z. Kapelan: *A Hidden Semi-Markov Model for the Occurrences of Water Pipe Bursts*
- M.J.Hawkins** (IRL), J.Connolly & K.Black: *Modelling Changes in Irish Forest Carbon Stocks*
- Tamara A.M. Hendrick** (NL), Maarten J.L.F.Cruyff & Peter G.M. van der Heijden: *Self-Protective Parameter Estimation in Models for Randomized Response Data*
- Irene Hudson** (AUS), Alethea Rea & Michelle Dalrymple: *Climate Impacts on Sudden Infant Death Syndrome: a GAMLSS Approach*
- I. Lopez-de-Ullibarri** (SP), M. X. Rodriguez-Alvarez & C. Cadarso-Suarez: *ROC.Regression: A new R Software for ROC Regression Analysis*
- Nirian Martin** (SP): *New Estimators for Mortality Ratios through Loglinear Modelling with Linear Constraints*
- Stanislaw Mejza** (PL), Joao T. Mexia & Dulce Pereira: *A Note on Modelling Environmental Indexes*
- Iwona Mejza** (PL) & Stanislaw Mejza: *Model Building for Series of Block Designed Experiments*
- Vito M. R. Muggeo** (IT): *Estimation of Linear Errors-in-Variables Models with Error-Free Covariates*
- Ismi Savvala** (NL): *Quintile Stratification on Propensity Scores and Standardization for a T-test*
- Arminda Lucia Siqueira** (BR) & Daniela Monteiro Braga: *Comparing Crossover Designs in Average Bioequivalence Studies*
- Nick Sofroniou** (IRL), Dominique Hoad & Jochen Einbeck: *League Tables for Literacy Survey Data Based on Random Effect Models*
- Julia Teles** (PT) & Luzia Goncalves: *Power of Normality Tests Under a Mixture of Gaussian Distributions: A Simulation Study*
- O. Valero** (SP), A. Espinal & P. Puig: *Analysis of Labor Spells in Social Security Contributors*
- Paul Wilson** (IRL): *Bias Estimation of P-values in Analytic and Simulated Cox Tests for Non-nested Models*
- Jason Wyse** (IRL): *A Physiological Application of Bayesian Linear Regression with a Change-Point*

Wednesday 9 July 2008

- 9.00 – 10.20 Contributed Session. Chair: Jerome Friedman
Carlo Giovanni Camarda (DE), Paul H. C. Eilers & Jutta Gampe: *A Warped Failure Time Model for Human Mortality*
Jutta Gampe (DE) & Paul H.C. Eilers: *Variation in Mortality: Estimation via a Meta-Analytic Approach*
Brian D. Marx (US), Paul H.C. Eilers, Jutta Gampe & Roland Rau: *Bilinear Varying-Coefficient Models for Seasonal Time Series and Tables*
Patricia A. Filipe (PT) & Carlos A. Braumann: *Modelling Individual Animal Growth in Random Environments*
- 10.20 – 10.50 Coffee/Tea break
- 10.50 – 11.50 Invited Speaker. Chair: Herwig Friedl
Jerome Friedman (Stanford University, US):
Fast Sparse Regression and Classification
- 12.00– 13.00 Lunch
- 13.10 – 19.00 Excursion to National Park “Hoge Veluwe”

Thursday 10 July 2008

- 9.00 – 10.20 Contributed Session. Chair: Theo Stijnen
David Dejardin (BE), Emmanuel Lesaffre & Geert Verbeke: *Joint Modeling of Progression Free Survival and Death*
Ardo van den Hout (UK) & Fiona E. Matthews: *A Bayesian Three-State Model to Estimate Life Expectancies*
Joseph Lynch (IRL) & Gilbert MacKenzie: *Piece-Wise Exponential PH models*
Gilbert MacKenzie (IRL) & Il Do Ha: *Robustness of the Regression Parameter in PH and Non-PH Frailty Survival Models*
- 10.20 – 10.50 Coffee/Tea break
- 10.50 – 11.50 Invited Speaker. Chair: Emmanuel Lesaffre
Alan Agresti (University of Florida, US):
Good Confidence Intervals for Discrete Statistical Models
- 11.50 – 12.40 Contributed Session. Chair: Paul Eilers
SPSS Technical Presentation
- 12.45– 14.00 Lunch
- 14.00 – 15.00 Contributed Session. Chair: Gilbert MacKenzie
Dana Draghicescu (US): *Modelling Space-Time Quantiles of Ground-Level Ozone*
C. Ferguson (UK) & A. Bowman: *Nonparametric Principal Components Analysis for Ecological Data*
Dae-Jin Lee (SP) & Maria Durban: *P-Spline ANOVA-Type Interaction Models for Spatio-Temporal Smoothing*
- 15.00 – 15.30 Coffee/Tea/Refreshments break
- 15.30 – 16.30 Contributed Session. Chair: Pedro Puig
Sabine K. Schnabel (DE) & Paul H.C. Eilers: *Optimal Expectile Smoothing*
F. van Eeuwijk (NL), P.H.C. Eilers & M. Malosetti: *Modeling Spatial Effects in Field Trials*
- 19.00 – 22.00 Conference Dinner; Academic Building, Senaatszaal

Friday 11 July 2008

- 9.30 – 10.30 Contributed Session. Chair: Iain Currie
C. Armero (SP), A. Artacho & A. Lopez-Quilez: *Developing an Expert System for Predicting Legionella Outbreaks in Evaporative Installations by Using Bayesian Hierarchical Models*
Sabit Cakmak (CA), Vladislav Brion, Mark Golberg, & Rick Burnett: *Do Pollution Time-Series Studies Contain Residual Confounding by Personal Risk Factors for Acute Health Events?*
Ramona Scheufele (DE) & Ekkehart Dietz: *A Simple Method of Estimating Relative Risk from a Prevalence Study and Observations of Disease Duration*
- 10.30 – 11.00 Coffee/Tea break
- 11.00 – 12.00 Invited Speaker. Chair: Wim Jansen
Theo Stijnen (Leiden University Medical Center, NL):
Random Effects Meta Analysis in the Framework of the General(ized) Linear Mixed Model
- 12.00 – 12.40 Contributed Session. Chair: Gerhard Neubauer
Adam R. Brentnall (UK), Martin J. Crowder & David J. Hand: *Empirical Random-Effects Models to Predict the Amount Individuals Withdraw at Cash Machines*
Dulce Gomes (PT), Carla Nunes & Luisa Canto e Castro: *Cold and Heat Waves: Modelling the Mortality in Evora-Portugal*
- 12.45– 13.45 Lunch

Scientific Program Committee:

Ulf Böckenholt	Faculty of Management, McGill University, Montréal CAN
Dankmar Böhning	Biostatistical Modelling and International Epidemiology, University of Reading, Reading UK
Maria Durban	Departamento de Estadística y Econometría, Universidad Carlos III de Madrid, Leganes, Madrid SP
Paul Eilers (Chair)	Department of Methodology and Statistics, Utrecht University NL
John Hinde	Department of Mathematics, National University of Ireland, Galway IRL
Mikis Stasinopoulos	STORM, London Metropolitan University, London UK

Local Organizing Committee:

Mrs. Flip Boerland	Dept. Methodology & Statistics, Utrecht University NL
Roland Holdinga	Dept. Methodology & Statistics, Utrecht University NL
Wim Jansen (chair)	Dept. Methodology & Statistics, Utrecht University NL
Mrs. Chantal Molnar	Dept. Methodology & Statistics, Utrecht University NL