

31st IWSM 2016 - Programme

Monday	Tuesday	Wednesday	Thursday	Friday
Opening (09.15–09.30)				
Contributed Session 1 (09.30–10.50)	Contributed Session 4 (09.00–10.20)	Contributed Session 8 (08.40–10.00)	Contributed Session 10 (09.00–10.20)	Contributed Session 14 (09.00–10.20)
Coffee Break (10.50–11.20)	Coffee Break (10.20–10.50)	Coffee Break (10.00–10.30)	Coffee Break (10.20–10.50)	Coffee Break (10.20–10.50)
Invited Talk 1 (11.20–12.20)	Invited Talk 2 (10.50–11.50)	Invited Talk 3 (10.30–11.30)	Invited Talk 4 (10.50–11.50)	Invited Talk 5 (10.50–11.50)
Contributed Session 5 (11.50–12.30)				
Contributed Session 9 SMS AGM&IWSM32 advert (11.30–12.30)				
Contributed Session 15 & Bye-Bye (11.50–12.45)				
Lunch (12.30–14.00)	Lunch (12.30–14.00)	Lunch (12.30–13.30)	Lunch (12.30–14.00)	Lunch (12.45–13.45)
Contributed Session 2 (14.00–15.20)	Poster Session (14.00–15.20)	Excursion (14.00 & 14.30)	Contributed Session 11 (14.00–15.20)	
Coffee Break (15.20–15.50)				
Contributed Session 3 (15.50–17.10)				
Contributed Session 6 (15.20–16.20)				
Contributed Session 12 (15.50–17.10)				
Coffee Break (16.20–16.50)				
Short break (17.10–17.20)				
Contributed Session 7 (16.50–18.10)				
Contributed Session 13 (17.20–18.20)				
Welcome Reception (18.30–20.30)				
Conference Dinner (20.00)				

31st IWSM 2016 - Schedule

MONDAY July 4th

08.15–09.15 Registration

09.15–09.30 Opening

09.30–10.50 Contributed Session 1

Chair: Jean-François Dupuy

- 09.30–09.50 Adrian Quintero, Emmanuel Lesaffre: *Modelling the covariance matrix for multivariate responses in hierarchical structures with correlated random effects*
- 09.50–10.10 Antonio Hermes Marques da Silva Junior, Jochen Einbeck, Peter S. Craig: *Gradient test for generalised linear models with random effects*
- 10.10–10.30 Šárka Rusá, Arnöst Komárek, Emmanuel Lesaffre, Luk Bruyneel: *A Bayesian analysis of a three-level moderated mediation model with ordinal outcome*
- 10.30–10.50 Gustavo Adolfo Gómez Escobar, Mercedes Andrade-Bejarano, Ramn Giraldo-Henao: *A linear mixed model with functional covariable applied to Chlorophyll concentration data*
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10.50–11.20 Coffee Break

11.20–12.20 Invited Talk 1

Chair: Brian Marx

Adrian Raftery: *Bayesian Population Projections with Migration Uncertainty*

12.30–14.00 Lunch

14.00–15.20 Contributed Session 2

Chair: Jochen Einbeck

- 14.00–14.20 Gillian Heller, Swaran Naidu: *A two-component regression model for the number of births*
- 14.20–14.40 Carla Azevedo, Dankmar Böhning, Mark Arnold: *A ratio regression approach to estimate the size of the Salmonella infected flock data using validation information*
- 14.40–15.00 Abu Hossain, Robert Rigby, Mikis Stasinopoulos, Marco Enea: *A flexible approach for modelling a proportion response variable: Loss given default*
- 15.00–15.20 Moritz Berger, Gerhard Tutz: *Modelling of varying dispersion in cumulative regression models*
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15.20–15.50 Coffee Break

15.50–17.10 Contributed Session 3

Chair: Philippe Lambert

- 15.50–16.10 Robson J. M. Machado, Ardo Van den Hout, Giampiero Marra : *A flexible multi-state model for aneurysm data*
- 16:10–16.30 Mathilde Wanneveich, Hélène Jacqmin-Gadda, Jean-François Dartigues, Pierre Joly: *Projections of health indicators for chronic disease: illness death model and semi-Markov assumption*
- 16.30–16.50 Mirko Signorelli, Veronica Vinciotti, Ernst C. Wit: *NEAT: an efficient Network Enrichment Analysis Test*
- 16.50–17.10 Seyed Mahdi Mahmoudi, Ernst C. Wit: *NCE: Nonparanormal causal effect*

18.30–20.30 Welcome Reception (Venue: Hôtel de Rennes Métropole). Buses to Hôtel de Rennes Métropole will leave from INSA at 17h45.

 TUESDAY July 5th

9.00-10.20 Contributed Session 4

Chair: Ernst Wit

- 9.00–9.20 Ying Lu, Marc Scott, Heng Peng: *Penalized fixed effects model for clustered and longitudinal data*
- 9.20–9.40 Anaïs Rouanet, H el ene Jacqmin-Gadda: *Comparison of methods to analyse longitudinal data truncated by death*
- 9.40–10.00 Gianluca Frasso, Philippe Lambert: *Estimation in nonlinear dynamic systems using Linearized ODE penalized splines*
- 10.00–10.20 Irene Mari nas, Adrian Bowman, Vincent Macaulay: *Modelling the shape of emotions*
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10.20–10.50 Coffee Break**10.50–11.50 Invited Talk 2**

Chair: Helga Wagner

Stefan Lang: *Bayesian distributional structured additive regression***11.50–12.30 Contributed Session 5**

Chair: Julie Josse

- 11.50–12.10 Giovanna Cilluffo, Salvatore Fasola, Vito M.R. Muggeo, Stefania La Grutta: *The induced smoothed LASSO*
- 12.10–12.30 Gilbert MacKenzie, Susana Conde: *Lasso model selection in multi-dimensional contingency tables?*
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12.30–14.00 Lunch (coffee and tea will be served at the poster session)**14.00–15.20 Poster Session****15.20–16.20 Contributed Session 6**

Chair: Marc Scott

- 15.20–15.40 Paul Wilson, Jochen Einbeck: *On statistical testing and mean parameter estimation for zero-modification in count data regression*
- 15.40–16.00 Jochen Einbeck, Paul Wilson: *A diagnostic plot for assessing model fit in count data models*
- 16.00–16h20 Rafael A. Moral, John Hinde, Clarice G. B. Dem etrio, Carolina Reigada, Wesley A. C. Godoy: *N-mixture models applied to zero-inflated insect abundance data*
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16.20–16.50 Coffee Break

16.50–18.10 Contributed Session 7

Chair: Enrico Colosimo

- 16.50–17.10 Wilfried Bonou, Philippe Lambert: *Inference in a stochastic SIR epidemic model using Bayesian filtering*
- 17.10–17.30 Mahdi Shafiee Kamalabad, Marco Grzegorzczuk : *A nonhomogeneous dynamic Bayesian network model with partially sequentially coupled network parameters*
- 17.30–17.50 Daniela Pauger, Gertraud Malsiner-Walli, Helga Wagner: *Bayesian effect fusion for categorical predictors with sparse finite mixture prior*
- 17.50–18.10 Thomai Tsiftsi : *Statistical shape analysis in a Bayesian framework for shapes in two and three dimensions*
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 WEDNESDAY July 6th

8.40-10.00 Contributed Session 8

Chair: Ardo van den Hout

- 8.40–9.00 Vincent Bremhorst, Philippe Lambert: *Flexible Bayesian cure survival model with categorical time-dependent covariates : An application to fertility studies*
- 9.00–9.20 Elisabeth Waldmann, David Taylor-Robinson, Thomas Kneib, Matthias Schmid, Andreas Mayr: *Boosting joint models for longitudinal data and survival times*
- 9.20–9.40 Shahla Ramzan, Gerhard Tutz: *Nearest neighbor imputation for categorical data by weighting of attributes*
- 9.40–10.00 Pavlo Mozharovskyi, Julie Josse, François Husson: *Nonparametric imputation based on data depth*
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10.00–10.30 Coffee Break**10.30–11.30 Invited Talk 3**

Chair: Dankmar Böhning

Sujit Sahu: *Efficient parameterisations of Gaussian process based models for Bayesian computation using MCMC***11.30–12.30 Contributed Session 9**

Chair: Vito M.R. Muggeo

- 11.30–11.50 Andreas Mayr, Tobias Hepp, Elisabeth Waldmann, Matthias Schmid, Florian Faschingbauer: *Distributional and quantile regression for quality control in fetal weight estimation*
- 11.50–12.10 Euloge C. Kenne Pagui, Alessandra Salvan, Nicola Sartori: *Median bias reduction of maximum likelihood estimates*
- 12.10–12.30 Sophia Kyriakou, Ioannis Kosmidis: *Reduced-bias estimation in generalised linear mixed effects models*
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12.30–13.30 Lunch**14.30-18.15 & 14.00-18.00 Excursion**

- **Discover Rennes and its heritage** walking tour. Meeting time and place: 14.30, at Rennes Tourist Information Centre (11 rue Saint-Yves, 35000 Rennes)
 - **Emerald Coast and Saint-Malo**. Meeting time and place: 14.00, INSA (bus will leave from the parking near INSA restaurant)
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THURSDAY July 7th

9.00-10.20 Contributed Session 10

Chair: Kenan Matawie

- 9.00-9.20 Stella Bollmann, Moritz Berger, Gerhard Tutz: *Item focused trees for the detection of differential item functioning in partial credit models*
- 9.20-9.40 Claudia Di Caterina, Ioannis Kosmidis: *Bias-corrected z-tests for regression models*
- 9.40-10.00 Ying Lu, Marc Scott, Preeti Raghavan: *Statistical inference for single-case design: application to post-stroke rehabilitation*
- 10.00-10.20 Christian Staerk, Maria Kateri, Ioannis Ntzoufras: *An adaptive subspace method for high-dimensional variable selection*
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10.20-10.50 Coffee Break

10.50-11.50 Invited Talk 4

Chair: David Causeur

Francesca Chiaromonte: *Functional Data Analysis at the boundary of "Omics"*

11.50-12.30 SMS AGM & IWSM 32 Advert

12.30-14.00 Lunch

14.00-15.20 Contributed Session 11

Chair: Ioannis Kosmidis

- 14.00-14.20 Enrico A. Colosimo, Maria Luíza G. de Toledo, Marta A. Freitas, Gustavo L. Gilardoni: *Optimal maintenance policy under imperfect repair: a case study of off-road engines*
- 14.20-14.40 Annette Möller, Jürgen Gross: *Probabilistic temperature forecasting based on an AR model fitted to forecast errors*
- 14.40-15.00 Ernst C. Wit, Hassan Pazira, Fentaw Abegaz, Javier Gonzalez, Luigi Augugliaro: *Sparse relative risk survival modelling*
- 15.00-15.20 Mark W. Donoghoe, Ian C. Marschner: *Fast stable relative risk regression using an overparameterised EM algorithm*
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15.20-15.50 Coffee Break

15.50–17.10 Contributed Session 12

Chair: Gerhard Tutz

- 15.50–16.10 Dae-Jin Lee, Diego Ayma, María Durbán, Jan van de Kasstele: *Smooth composite link models for spatio-temporal disaggregation of epidemiological data*
- 16.10–16.30 Samuel D. Oman, Jorge Mateu: *The latent scale covariogram: a tool for exploring the spatial dependence structure of non-normal responses*
- 16.30–16.50 María Xosé Rodríguez-Álvarez, María Durbán, Dae-Jin Lee, Paul H.C. Eilers, Francisco Gonzalez: *Spatio-temporal adaptive penalized splines with application to Neuroscience*
- 16.50–17.10 Adrien Ickowicz: *Publication citability : a spatio-temporal modelling approach*
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17.10–17.20 Short break

17.20–18.20 Contributed Session 13

Chair: Madison Giacomci

- 17.20–17.40 David Causeur, Ching-Fan Sheu, Emeline Perthame: *Signal detection in Event-Related Potentials data*
- 17.40–18.00 Anestis Touloumis: *A simple model for analyzing multi-tissue gene expression data*
- 18.00–18.20 Ioannis Kosmidis, Annamaria Guolo, Cristiano Varin: *Penalized likelihood inference in meta-regression*
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20.00 Conference Dinner (Venue: Restaurant L'Amiral)

FRIDAY July 8th

9.00-10.20 Contributed Session 14

Chair: Pavlo Mozharovskyi

- 9.00-9.20 Kenan Matawie and Sargon Hasso: *Information retrieval models: performance, evaluation and comparisons for healthcare Big Data Analytics*
- 9.20-9.40 Roberto Colombi, Sabrina Giordano, Anna Gottard, Maria Iannario: *Ordinal responses with latent uncertainty: a bivariate model*
- 9.40-10.00 Gunther Schauburger, Andreas Groll, Gerhard Tutz: *Subject-Object-Specific covariates in paired comparison models - An application to data from the German Bundesliga*
- 10.00-10.20 Angela Carollo, Francesco Libasci, Giada Adelfio, Marcello Chiodi, Orietta Nicolis: *Forecasting and representation of the intensity of an ETAS model: a visualization approach*
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10.20-10.50 Coffee Break

10.50-11.50 Invited Talk 5

Chair: Arnost Komarek

Jean-Michel Marin: *Approximate Bayesian Computation using Random Forests*

11.50-12.45 Contributed Session 15 & Bye Bye

Chair: Marco Grzegorzcyk

- 11.50-12.10 Paul H.C. Eilers: *Functional data analysis of juggling records with the smooth complex logarithm*
- 12.10-12.30 Carlo G. Camarda, Paul H.C. Eilers, Jutta Gampe: *Trends in digit preference: Mastering a challenge with the penalized composite link model*
- 12.30-12.45 *Bye Bye*
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12.45-13.45 Lunch

31st IWSM 2016 - Poster Presentations

TUESDAY July 5th, 14.00 - 15.20, VENUE: building 4 (cafeteria)

- [1] Pariya Behrouzi, Ernst C. Wit: *Penalized Gaussian Copula Graphical Models for Detecting Epistatic Selection*
- [2] Paul Brown, Chaitanya Joshi, Stephen Joe, Nigel McCarter: *Spatio-temporal modelling of crime using low discrepancy sequences*
- [3] Alba Carballo, María Durbán, Dae-Jin Lee, Paul Eilers: *The memory of extrapolating P-splines*
- [4] Claudia Castro-Kuriss, Víctor Leiva: *Modelling censored and uncensored data: comparing treatments with GOF techniques*
- [5] Linda Chaba, John Odhiambo, Bernard Omolo: *Comparison of the SAM and a Bayesian method for differential gene expression analysis*
- [6] Fernanda De Bastiani, Mikis D. Stasinopoulos, Robert A. Rigby, Miguel Uribe-Opazo and Audrey H.M.A. Cysneiros: *Gaussian Markov Random Fields within GAMLSS*
- [7] Wim De Mulder, Geert Molenberghs, Geert Verbeke: *An experimental comparison of three conceptually related methods: inverse distance weighting, radial basis function networks and Gaussian process emulation*
- [8] Cristina Ehrmann-Bostan, Birgit Prodinger, Gerold Stucki: *Describing and understanding functioning in Spinal Cord Injury - a graphical model approach*
- [9] Mouloud Elhafidi, Abdessamad Ouchen: *Econometric detection of speculative bubbles: application of the Markov regime switching model*
- [10] Nazia P. Gill, Letterio D'Arrigo, Francesco Savoca, Angela Costa, Astrid Bonaccorsi, Ernst C. Wit and Michele Pennisi: *Use of GAM for determining the efficacy of RIRS in kidney stone removal*
- [11] Helton Graziadei de Carvalho, Luis Gustavo Esteves: *A Bayesian Test for Marginal Homogeneity in Contingency Tables*
- [12] Andreas Groll, Jasmin Abedieh, Manuel J. A. Eugster: *Modeling Concentration in Data with an Exogenous Order*
- [13] Freddy Hernández, Olga Usuga, Jorge I. Vélez: *Impact of misspecified random effects distribution on the variance component test in GLMM*
- [14] Ting Hsiang Lin, Min-Hsiao Tsai: *Modeling data with truncated and in ated Poisson distribution*
- [15] Antonio López-Quílez, Miriam Marco, Enrique Gracia, Marisol Lila: *Bayesian joint spatial models for intimate partner violence and child maltreatment*
- [16] Wan Jing Low, Paul Wilson, Mike Thelwall: *Variations of compound models*
- [17] Ivana Malá: *Modelling of the unemployment duration in the Czech Republic with the use of a finite mixture model*
- [18] Ana M. Martínez-Rodríguez, Antonio Conde-Sánchez, Antonio J. Sáez-Castillo: *Zero inflated hyper-Poisson regression model*
- [19] Luís Meira-Machado: *Presmoothed Landmark estimators of the transition probabilities*
- [20] Joanna Morais, Christine Thomas-Agnan, Michel Simioni: *Modeling market-shares or compositional data: An application to the automobile market*
- [21] Rossella Murtas, Alexander Philip Dawid, Monica Musio: *Probability of causation: Bounds and identification for partial and complete mediation analysis*
- [22] Josu Najera-Zuloaga, Dae-Jin Lee, Inmaculada Arostegui: *Comparison of beta-binomial regression approaches to analyze health related quality of life data*
- [23] Luiz R. Nakamura, Robert A. Rigby, Dimitrios M. Stasinopoulos, Roseli A. Leandro, Cristian Villegas, Rodrigo R. Pescim: *A new flexible distribution with unimodal and bimodal shapes*
- [24] Vicente Núñez-Antón, Ainhoa Oguiza, Jorge Virto: *Linear mixed models innovative methodological approaches in pseudopanel*
- [25] M. J., Olmo-Jiménez, J. Rodríguez-Avi, V. Cueva-López: *CTP distribution versus other usual models for count data*
- [26] Gilberto A. Paula and Luis Hernando Vanegas: *Semiparametric log-symmetric regression models for censored data*

- [27] Anna Pidnebesna, Kateřina Helisová, Jiří Dvořák, Radka Lechnerová, Tomáš Lechner: *Statistical Modelling of Submissions to Municipalities in the Czech Republic*
- [28] Aluísio Pinheiro , Abdourrahmane Atto, Emmanuel Trouvé: *Wavelet statistical analysis in multitemporal SAR images*
- [29] Hildete P. Pinheiro, Rafael P. Maia, Eufrásio Lima Neto, Mariana R. Motta: *Modelling the proportion of failed courses and GPA scores for engineering major students*
- [30] Xiaoyun Quan, James G. Booth: *Double-saddlepoint approximation for enumeration of tables for exact tests of Hardy-Weinberg proportions*
- [31] Idemauro Antonio Rodrigues de Lara, John Hinde, Ariane Cristina de Castro: *Markov transition models for ordinal responses applied to pig behavior*
- [32] Wasseem Rumjaun, Naushad Mamodekhan: *Constructing a Bivariate Com-Poisson Model Using Copulas*
- [33] Gianluca Sottile, Vito M. R. Muggeo: *Tuning parameter selection in LASSO regression*
- [34] Inês Sousa, Ana Borges, Luis Castro: *Longitudinal models with informative time measurements*
- [35] Reto Stauffer, Nikolaus Umlauf, Jakob W. Messner, Georg J. Mayr, Achim Zeileis: *Ensemble Post-Processing over Complex Terrain Using High-Resolution Anomalies*
- [36] Elizabeth Stojanovski: *Bayesian Meta-Analysis to incorporate uncertainty*
- [37] Daniel Tait, Nadine Geiger, Bruce J. Worton, Andrew Bell, Ian G. Main: *Nonlinear modelling of experimental rock failure data*
- [38] Alicia Thiéry, François Séverac, Mickaël Schaeffer, Marie-Astrid Metten, Monica Musio, Erik-A. Sauleau: *Methods for multicausality in epidemiology: application to survival data of patients with end stage renal disease*
- [39] Tita Vanichbuncha, Martin S. Ridout, Diogo Veríssimo: *Partial Ranking Analysis*
- [40] S. Zafar, I. L. Hudson, E. J. Beh, S. A. Hudson, A. D. Abell: *A non-iterative approach to ordinal log-linear models: investigation of log D in drug discovery*