



**UNIVERSITÀ
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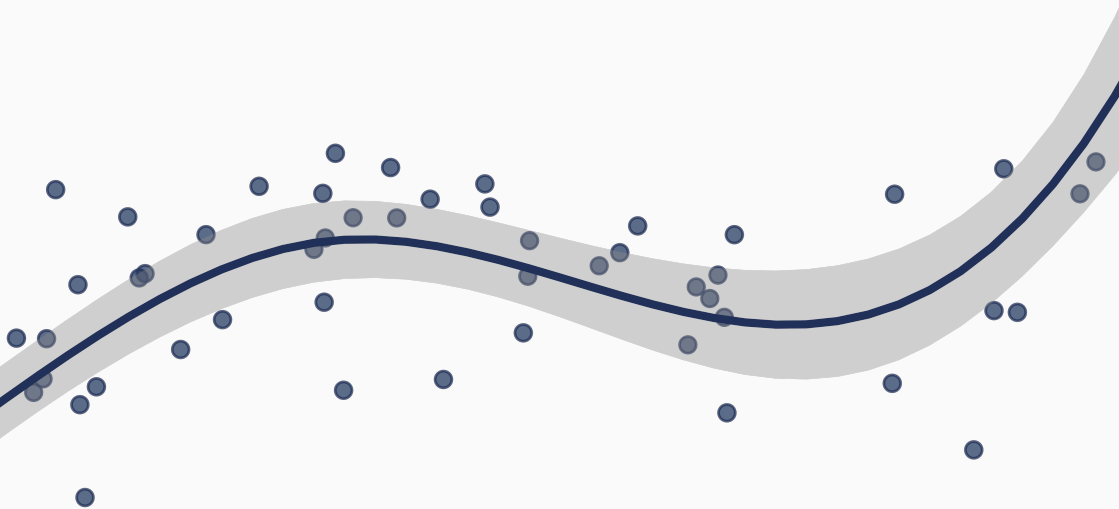


36th International Workshop on Statistical Modelling

IWSM 2022

July 18-22, 2022 - Trieste

Programme



Welcome to IWSM 2022

IWSM is one of the major activities of the Statistical Modelling Society. The workshop involves academics, professional statisticians, and data analysts with a particular focus on real data problems with the aim to share knowledge on novel statistical modelling or innovative model applications.

IWSM 2022 is organized by the Department of Economics, Business, Mathematics and Statistics “Bruno de Finetti” (**DEAMS**) of the **University of Trieste** and will be held at the Department building on the Trieste University Campus. IWSM 2022 is sponsored by the Italian Statistical Society (SIS).



For further information please visit:

IWSM 2022: <https://www.iwsm2022.com>

Statistical Modelling Society: <https://www.statmod.org>

University of Trieste: <https://www.units.it>

DEAMS: <https://www.deams.units.it>

Tourist office: <https://www.turismofvg.it>

Discover Trieste: <https://www.discover-trieste.it/en/15883/Places-curiosities-and-legends>

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Marco Stefanucci, University of Rome - La Sapienza, DSS
Susanna Zaccarin, University of Trieste, DEAMS

Agenda

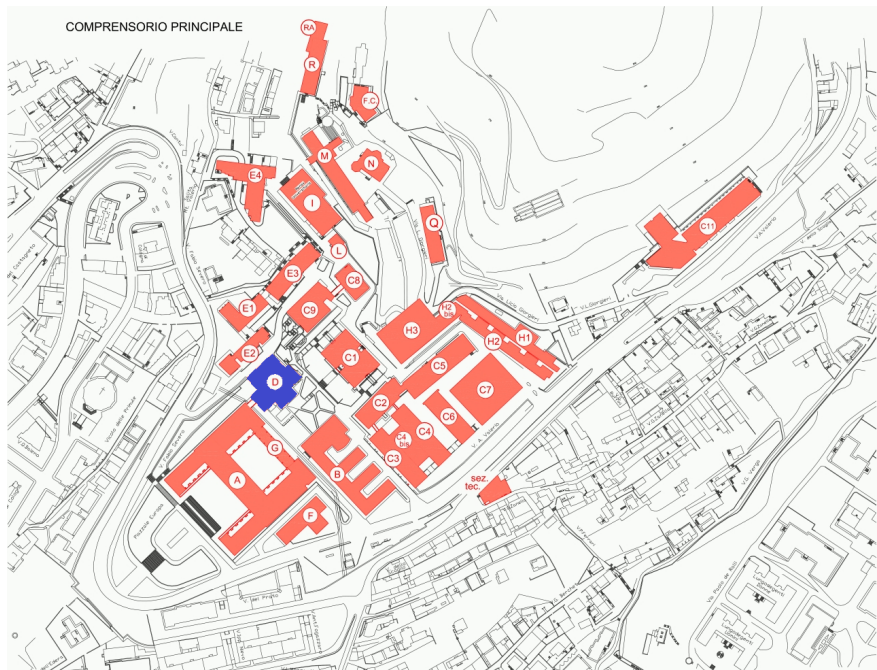
Sunday 17	Monday 18	Tuesday 19	Wednesday 20	Thursday 21	Friday 22
Room 3A (Bld H2bis)	Aula Magna 0_A (Bld D, floor -1)	Aula Magna 0_A (Bld D, floor -1)	Aula Magna 0_A (Bld D, floor -1)	Aula Magna 0_A (Bld D, floor -1)	Aula Magna 0_A (Bld D, floor -1)
Registration 9.00-10.00	Registration 8.30-9.15	Contributed Session 5 8.40-10.00	Contributed Session 10 8.40-10.00	Contributed Session 12 8.40-9.40	Contributed Session 16 9.00-10.20
	Opening 9.15-9.30			Coffee Break 9.40-10.10	
Short Course 10.00-13.00	Contributed Session 1 9.30-10.30	Coffee Break 10.00-10.30	Coffee Break 10.00-10.30	Invited Speaker 10.10-11.10	Coffee Break 10.20-10.50
	Coffee Break 10.30-11.00	Invited Speaker 10.30-11.30	Invited Speaker 10.30-11.30		Contributed Session 13 11.10-12.10
	Invited Speaker 11.00-12.00	Contributed Session 6 11.30-12.50	Contributed Session 11 11.30-12.50	SMS AGM + 37th IWSM 12.10-13.10	
	Contributed Session 2 12.00-13.00				Lunch 12.50-14.15
	Lunch 13.00-14.20	Contributed Session 3 14.20-15.20	Contributed Session 7 14.15-15.15	Excursion 14.00	
Short Course 14.30-18.30	Coffee Break 15.20-16.00	Poster Session 1 + Coffee Break 15.15-16.40	Contributed Session 15 17.20-18.20		
	Contributed Session 4 16.00-17.20	Contributed Session 8 16.40-18.00			
		Contributed Session 9 18.00-19.00			
	Welcome cocktail 19.00				Social Dinner 20.30

Places and Events

IWSM 2022 takes place at DEAMS building (Bld D)

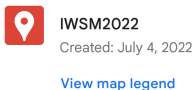
Poster sessions and coffee breaks take place in the main building (Bld A)

Lunches are offered at the campus canteen (Bld I)



More info at <https://www.iwsm2022.com/social-program/>

Get all workshop places at <http://tiny.cc/IWMS2022maps> or scan the QRcode!



IWSM2022

Created: July 4, 2022

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IWSM2022

- + Conference Venue
- U Poster Session
- X Lunch
- C Coffee Break
- X Social Dinner
- Y Welcome Cocktail

Lunch @Campus canteen

- L Lunch @Campus canteen
- A Conference Venue
- B Lunch

Welcome cocktail: Pier, Molo Venezia, 1, Trieste (7 pm on Monday 18th)

Social dinner: Savoia Excelsior Palace Hotel, Riva del Mandracchio, 4, Trieste (8.30 pm on Thursday 21st)

Guided Tour: the Giant Cave, Miramare Castle, and the Rilke trail connecting the villages Sistiana and Duino (buses leave at 2 pm from the Conference venue on Wednesday 20th)

Oral Presentations ¹

MONDAY 18 JULY

08.30 - 09.15 Registration

09.15 - 09.30 Opening

09.30 - 10.30 Contributed Session 1 **chair:** Nicola Torelli

09.30 - 09.50 Fernanda De Bastiani, Mikis D. Stasinopoulos, Robert A. Rigby, Thomas Kneib
Exploring relationships using non-linear correlation coefficients

09.50 - 10.10 James Jackson^S, Robin Mitra, Brian Francis, Iain Dove
Using saturated models for data synthesis

10.10 - 10.30 Gunther Schaubberger, Luana Fiengo Tanaka, Moritz Berger
Tree-based modeling of confounding effects in matched case-control studies

10.30 - 11.00 Coffee break

11.00 - 12.00 Invited Speaker **chair:** Paul Eilers

Anthony C. Davison, EPFL - École Polytechnique Fédérale de Lausanne, Switzerland
How long could a human live?

12.00 - 13.00 Contributed Session 2 **chair:** Serena Arima

12.00 - 12.20 Jan Vávra^S, Arnošt Komárek
GLMM based clustering of multivariate mixed type longitudinal data

12.20 - 12.40 Ilse Cuevas Andrade^S, Ardo van den Hout, Nora Pashayan
Multi-state models as an alternative to joint models; estimating treatment effects using longitudinal data

¹Speakers are underlined, the ^S symbol denotes speakers who enlisted for student awards

12.40 - 13.00 Caterina Gregorio^S, Giulia Barbati, Francesca Ieva
Personalised effect of discontinuing treatment in heart failure patients through multi-state modelling

13.00 - 14.20 Lunch

14.20 - 15.20 Contributed Session 3 **chair:** Helga Wagner

14.20 - 14.40 Maritza Márquez, Cristian Meza, Dae-Jin Lee, Rolando de la Cruz
Estimation and classification in semiparametric nonlinear mixed models using P-Splines and the SAEM algorithm

14.40 - 15.00 Dayasri Ravi^S, Andreas Groll, Tamara Schikowski
Non-linear modelling of systolic and diastolic blood pressures via environmental factors

15.00 - 15.20 Guillermo Briseño Sanchez^S, Andreas Groll
Bivariate mixed binary-survival additive regression modelling

15.20 - 16.00 Coffee break

16.00 - 17.20 Contributed Session 4 **chair:** Ardo Van den Hout

16.00 - 16.20 Angela Carollo^S, Hein Putter, Paul Eilers, Jutta Gampe
Competing risks models with two time scales

16.20 - 16.40 Anja Rappl, Thomas Kneib, Stefan Lang, Elisabeth Bergherr
Spatial joint models through Bayesian structured piecewise additive joint modelling for longitudinal and time-to-event data

16.40 - 17.00 Hortense Doms^S, Philippe Lambert, Catherine Legrand
Flexible joint model for time-to-event and non-Gaussian longitudinal outcomes

17.00 - 17.20 Enrico A. Colosimo, Emilly M. Lima, Maria C.P. Nunes
Alternative approaches to dynamic predictions: an application on a cohort of patients with Chagas disease

19.00 - 21.30 → Welcome cocktail

08.40 - 10.00 Contributed Session 5 **chair:** Jochen Einbeck

- 08.40 - 09.00 Silvia Brosolo, Alessandra R. Brazzale, Giovanna Menardi
Locating γ -ray sources on the celestial sphere via mixture models
- 09.00 - 09.20 Timo Lohrmann^S, Anders Kvellestad, Riccardo De Bin
A modified dividing local Gaussian processes algorithm for theoretical particle physics applications
- 09.20 - 09.40 Timo Adam, Richard Glennie, Théo Michelot
State-switching varying-coefficient stochastic differential equations
- 09.40 - 10.00 Umut Altay^S, John Paige, Andrea Riebler, Geir-Arne Fuglstad
Spatial modelling with covariates for survey data with positional uncertainty

10.00 - 10.30 Coffee break

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- 10.30 - 11.30 Invited Speaker** **chair:** Vito Muggeo
Hélène Jacqmin-Gadda, University of Bordeaux, France
Is blood pressure variability a risk factor for cerebro-vascular event? Joint modelling approaches

11.30 - 12.50 Contributed Session 6 **chair:** Nicola Sartori

- 11.30 - 11.50 Katharina Hechinger^S, Xiao Xiang Zhu, Göran Kauermann
Categorizing the world into local climate zones - towards quantifying labelling uncertainty for machine learning models
- 11.50 - 12.10 Andrew McInerney^S, Kevin Burke
Statistical information-criteria-based neural network input and hidden node selection
- 12.10 - 12.30 Clara Bertinelli Salucci^S, Azzeddine Bakdi, Ingrid Kristine Glad, Erik Vanem, Riccardo De Bin
A novel semi-supervised learning approach for maritime lithium-ion battery monitoring

12.30 - 12.50 Lorenzo Schiavon, Antonio Canale, Bernardo Nipoti
Fast structured matrix factorization

12.50 - 14.15 Lunch

14.15 - 15.15 Contributed Session 7 **chair:** Dae-Jin Lee

14.15 - 14.35 Patrick Zietkiewicz^S, Ioannis Kosmidis
Mean and median bias reduction in generalized linear models with large data sets

14.35 - 14.55 Vincenzo Gioia^S, Matteo Fasiolo, Ruggero Bellio
A comparison of unconstrained parameterisations for additive mean and covariance matrix modelling

14.55 - 15.15 Andrea Mascaretti^S, Antonio Canale
Bayesian mixtures of envelope models

15.15 - 16.40 Poster Session 1 + Coffee break

16.40 - 18.00 Contributed Session 8 **chair:** Ruggero Bellio

16.40 - 17.00 Philipp Sterzinger^S, Ioannis Kosmidis
Maximum softly-penalized likelihood for mixed effects logistic regression

17.00 - 17.20 Daniele Cuntrera^S, Vito M. R. Muggeo, Luigi Augugliaro
Variable selection with quasi-unbiased estimation: the CDF penalty

17.20 - 17.40 Reto Stauffer, Moritz N. Lang, Achim Zeileis
Graphical assessment of probabilistic precipitation forecasts

17.40 - 18.00 Alexandra Welsh^S, Deborah A. Costain, Andrew C. Titman
Estimating quality-adjusted life-years: assessing the bias induced for a terminal decline quality of life model

18.00 - 19.00 Contributed Session 9 **chair:** Andreas Mayr

18.00 - 18.20 Thomas Minotto^S, Ingrid Hobæk Haff, Geir Kjetil Sandve
Detecting statistical interactions in immune receptor datasets

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- 18.20 - 18.40 Pouyan Nejadi^S, Davood Roshan, John Newell
Movement pattern discovery with applications in elite soccer
- 18.40 - 19.00 María Alonso-Pena^S, Rosa M. Crujeiras
Modelling zebrafish escape strategies with circular modal regression
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WEDNESDAY 20 JULY

08.40 - 10.00 Contributed Session 10 **chair:** Maria Durban

- 08.40 - 09.00 Lawrence Tray^S, Ioannis Kontoyiannis
The feature-first block model
- 09.00 - 09.20 Abdul Salam^S, Marco Grzegorzcyk
Learning the structure of the mTOR protein signalling pathway
- 09.20 - 09.40 Veronica Vinciotti, Ernst Wit
Hierarchical graphical modelling of microbiome interactions in related environments
- 09.40 - 10.00 Paul H.C. Eilers
Smoothing on networks with P-splines

10.00 - 10.30 Coffee break

10.30 - 11.30 Invited Speaker **chair:** Thomas Kneib

Ioannis Kosmidis, University of Warwick, United Kingdom
Improved estimation through additive adjustment of estimating functions

11.30 - 12.50 Contributed Session 11 **chair:** María Xosé Rodríguez Álvarez

- 11.30 - 11.50 Oswaldo Gressani, Niel Hens, Christel Faes
The power of Laplacian-P-splines for inference in epidemiological and survival models
- 11.50 - 12.10 Pavel Hernández-Amaro^S, María Durbán, María Carmen Aguilera-Morillo, Cristobal Esteban Gonzalez, Inma Arostegui
Functional regression on variable domains: a penalized approach.
- 12.10 - 12.30 Laura Freijeiro-González^S, Manuel Febrero-Bande, Wenceslao González-Manteiga
Detection of relevant covariates involved in casual rentals in the Capital bikeshare program of Washington, D.C., by

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means of new nonparametric specification tests for additive
concurrent models formulation

12.30 - 12.50 Manuel Carlan, Thomas Kneib
Bayesian discrete conditional transformation models

12.50 - 14.00 Lunch

14.00 → Excursion

THURSDAY 21 JULY

08.40 - 09.40 Contributed Session 12 **chair:** Dimitrios Stasinopoulos

08.40 - 09.00 Boyao Zhang^S, Colin Griesbach, Elisabeth Bergherr
Bayesian boosting for simultaneous estimation and selection of fixed and random effects in high-dimensional mixed models

09.00 - 09.20 Meadhbh O'Neill^S, Kevin Burke
Automatic variable selection in distributional regression models using a smooth information criterion

09.20 - 09.40 Colin Griesbach, Andreas Mayr, Elisabeth Bergherr
Variable selection and allocation in joint models via gradient boosting techniques

09.40 - 10.10 Coffee break

10.10 - 11.10 Invited Speaker **chair:** Sabine Schnabel
Claudia Czado, Technical University of Munich, Germany
Vine copula based stress testing

11.10 - 12.10 Contributed Session 13 **chair:** Arnošt Komárek

11.10 - 11.30 David Moriña, Amanda Fernández-Fontelo, Alejandra Cabaña, Argimiro Arratia, Pedro Puig
Estimated COVID-19 burden in Spain: ARCH underreported non-stationary time series

11.30 - 11.50 Ioannis Papageorgiou^S, Ioannis Kontoyiannis
Bayesian mixture models for time series based on context trees

11.50 - 12.10 Rouven Michels, Marius Ötting, Roland Langrock
A varying coefficient state-space model for investigating betting behaviour within in-play markets

12.10 - 13.10 SMS AGM, IWSM 37th, Session “Anniversary of the Statistical Modelling journal” (remembering Brian Marx)

12.10 - 12.30 Vito Muggeo (*Statistical Modelling Society Executive Committee*)

Annual General Meeting of the Statistical Modelling Society

12.30 - 13.00 Herwig Friedl, Andreas Mayr

The Statistical Modelling Journal, present and past

13.00 - 13.10 Andreas Groll (*37th IWSM Local Organizing Committee*)

Announcement of the 37th IWSM

13.10 - 14.30 Lunch

14.30 - 15.50 Contributed Session 14 **chair:** Andreas Groll

14.30 - 14.50 Philippe Lambert, Michaela Kreyenfeld

Laplace approximation for penalty selection in double additive cure survival model with exogenous time-varying covariates

14.50 - 15.10 Alise Danielle Midtfjord, Riccardo De Bin, Arne Bang Huseby

A boosting model for survival analysis with dependent censoring

15.10 - 15.30 Roberto Colombi, Sabrina Giordano, Maria Kateri

A responding attitude component in hidden Markov models

15.30 - 15.50 Nicolas Bianco^S, Mauro Bernardi, Daniele Bianchi

Bernoulli-Gaussian model for dynamic sparsity in time varying parameter regression

15.50 - 17.20 Poster Session 2 + coffee break

17.20 - 18.20 Contributed Session 15

chair: Jutta Gampe

- 17.20 - 17.40 Bruno Arpino, Silvia Bacci, Leonardo Grilli, Raffaele Guetto, Carla Rampichini
Evaluating the school effect using multilevel models: adjusting for pre-test or using gain scores?
- 17.40 - 18.00 David Aristei, Silvia Bacci, Manuela Gallo, Maria Iannario
Multidimensional latent mixed models for don't know responses in panel data concerning *Financial knowledge*
- 18.00 - 18.20 Mattia Stival, Mauro Bernardi, Manuela Cattelan, Petros Dellaportas
Longitudinal clustering of athletes' careers under informative missing data patterns

20.30 → Social Dinner

09.00 - 10.20 Contributed Session 16 **chair:** Pierpaolo De Blasi

09.00 - 09.20 Davood Roshan, John Ferguson, Charles R. Pedlar, John Newell

Univariate and multivariate adaptive reference ranges for longitudinal monitoring

09.20 - 09.40 Mario Angelelli, Christian Catalano

A quantile regression ranking for cyber-risk assessment

09.40 - 10.00 Viviana Carcaiso, Leonardo Grilli

Analysis of count data by quantile regression coefficient modelling: student's gained credits after online teaching

10.00 - 10.20 Michele Lambardi di San Miniato, Ruggero Bellio, Luca Grassetti, Paolo Vidoni

Robust regression and adaptive filtering

10.20 - 10.50 Coffee break

10.50 - 11.50 Invited Speaker **chair:** Philippe Lambert

Antonio Canale, University of Padova, Italy

Bayesian dimensionality reduction

11.50 - 13.10 Contributed Session 17 **chair:** Leonardo Egidi

11.50 - 12.10 Jennifer Pohle, Johannes Signer, Ulrike Schlägel

Markov-switching step selection analysis

12.10 - 12.30 John Paige, Geir-Arne Fuglstad, Andrea Riebler, Jon Wakefield

Aggregating from point to areal prevalences: a complete population model

12.30 - 12.50 Massimo Ventrucci, Garritt Page

Adjusting for spatial confounding using eigendecomposed CAR models

12.50 - 13.10 Paul T. Brown, Chaitanya Joshi, Deane Searle, Stephen Joe
Spatial anisotropic modelling of the repeat/near repeat victimisation phenomenon

13.10 - 14.30 Closing + Lunch

Poster Presentations

Poster Session 1: TUESDAY 19 JULY, 15.15 - 16.40

Adetola Adedamola Adediran^S, Jack Noonan, Robin Mitra, Stefanie Biedermann. Comparing recovery sample designs to test for the presence of MNAR

Rosario Barone, Andrea Tancredi. Bayesian mixtures of discretely observed multi-state models

Laurens Bogaardt, Anoukh van Giessen, Susan Picavet, Hendriek C. Boshuizen. A model of individual BMI trajectories

Annalisa Cerquetti. On the first two size-biased picks from the normalized Inverse Gaussian prior

William L. de Oliveira, María Durbán, Carlos A.R. Diniz. Bernoulli-exponential semiparametric regression model

John Ferguson, Alberto Alvarez, Catriona Reddin, Robert Murphy, Martin O'Donnell. Quirks with joint hierarchical models: examples involving global relationships between sodium and potassium intake, GDP and healthy life expectancy

Giovanni Fonseca, Federica Giummolè, Paolo Vidoni. Probabilistic prediction: aims and solutions

Sargon Hasso, Kenan M Matawie. Experimental results and comparisons of semantically enriched query alternatives in information retrieval models

Caizhu Huang^S, Nicola Sartori. Directional test for the comparison of moderate-dimensional normal mean vectors

Aliaksandr Hubin, Riccardo De Bin. On a genetically modified mode jumping MCMC approach for multivariate fractional polynomials

Laura McQuaid^S, Shirin Moghaddam, Kevin Burke. Penalized power-generalized Weibull distributional regression

Lizzie Neumann^S, Jan Gertheiss. Covariate-adjusted association of sensor outputs

Thiago P. Oliveira, J. Obšteter, I. Pocrnic, G. Gorjanc. A method for partitioning trends in genetic mean and variance

William R. Palmer^S. Inferring edges in spiking model on a network

Hyebin Park^S, Juyong Hong. A combination technique for unbalanced binary classification using artificial neural network

Jeong-Soo Park^S, Thanawan Prahadchai. Fast computation for performance and independence weighting of climate multi-models

Christian Pfeifer, Sabine Danzinger, Christian Singer. ‘Predicted conversion rate’ (PCR) of neoadjuvant treatment in relation to the (y)pN stage of HER2-positive breast cancer cases

Thanawan Prahadchai^S. Analysis of maximum precipitation in Thailand using ensemble of non-stationary extreme value models

Thanawan Prahadchai^S, Jeong-Soo Park. Projecting extreme precipitation in the Philippines using the CMIP6 multi-model ensemble

Juan M. Rodríguez-Díaz. Review of covariance structures of multiresponse and multisubject models from the point of view of optimal design of experiments

Yire Shin^S, Jeong-Soo Park. Statistical downscaling of air temperature using variational autoencoded regression

Federica Stolf^S, Antonio Canale. Bayesian spatial modeling of extreme precipitation

Hiu Ching Yip^S, Gianluca Mastrantonio, Enrico Bibbona, Marco Gamba, Daria Valente. Nearest neighbours Gaussian process model for time-frequency data: an application in bio-acoustic analysis

Daniele Zago^S, Antonio Canale, Marco Stefanucci. Bayesian multiscale mixtures of multivariate Gaussian kernels for density estimation

Yingjuan Zhang^S, Jochen Einbeck. Simultaneous linear dimension reduction and clustering with flexible variance matrices

Dafne Zorzetto^S, Falco J. Bargagli-Stoffi, Antonio Canale, Francesca Dominici. Dependent Dirichlet mixture processes for causal inference

Lore Zumeta-Olaskoaga^S, Andreas Bender, Helmut Küchenhoff, Dae-Jin Lee. Modelling the recurrence of injuries in football players using piecewise exponential additive mixed models

Poster Session 2: THURSDAY 21 JULY, 15.40 - 17.10

Giuseppe Alfonzetti^S, Ruggero Bellio. Reliable generalized linear latent variable models estimation via simulated maximum likelihood

Michela Battauz, Paolo Vidoni. Boosting for variance components in mixed models

Cristian Castiglione^S, Mauro Bernardi. Probabilistic load forecasting via dynamic quantile regression

Daniele Cuntrera^S, Vito M. R. Muggeo. Adaptive P-splines via L_1 -type penalty in generalized additive models

Nicoletta D'Angelo^S, David Payares, Giada Adelfio, Jorge Mateu. Hawkes processes on networks for crime data

Claudia Di Caterina, Davide Ferrari. Sparse composite likelihood selection.

Edoardo Filippi-Mazzola, Federica Bianchi, Ernst Wit. Causes of the decrease of patent similarities from 1976 to 2021

Alexander Gerharz, Carmen Ruff, Andreas Groll, Andreas D. Meid. Model selection for predicting readmissions with health insurance data

Niamh Graham^S, Natalia Bochkina, Damian Mole. Estimating periodicity in disease dynamics

Alba Halliday^S. Identification of possible COVID-19 pandemic impact on Scottish national therapeutic indicators.

Luke Hardcastle^S, Samuel Livingstone, Claire Black, Federico Ricciardi, Gianluca Baio. A Bayesian hierarchical model for improving exercise rehabilitation in mechanically ventilated ICU patients

Aisouda Hoshiyar^S, Jan Gertheiss. Regularization and model selection for item-on-item regression

Aoife K Hurley^S, James Sweeney. Joint species spatial modelling of deer count data: a simulation study

Ivana Malá, Adam Čabla. Comparison of models of the unemployment duration in the Czech Republic

Rui Martins, Lisete Sousa, Iúri Correia, Inês Farias, Ivone Figueiredo. Modelling the population dynamics of the Blackspot Seabream (*Pagellus Bogaraveo*) on the Portuguese coast

Owen McGrath^S, Kevin Burke. Binomial confidence intervals for rare events: importance of defining margin of error relative to magnitude of proportion

Lethani Ndwandwe^S, J.S. Allison, M. Smuts, I.J.H. Visagie. On new classes of tests for the Pareto distribution based on the empirical characteristic functions

Thobeka Nombebe^S, Leonard Santana, James S. Allison, Jaco Visagie. Investigating different parameter estimation techniques for the Lomax distribution

Diana M. Pérez-Valencia^S, María Xosé Rodríguez-Álvarez, Martin P. Boer, Fred A. van Eeuwijk. Performance of spatio-temporal hierarchical P-spline models using simulated data

Iliaria Prosdocimi. Extending Generalized Additive Models for extreme value modeling: a software review

Cristian Roner, Claudia Di Caterina, Davide Ferrari. Robust zero-inflated interval regression for cyber security survey data

Abdul Salam^S, Marco Grzegorzczuk. A new refined non-homogeneous dynamic Bayesian network with globally coupled network interaction parameters

Shubhangi Sikaria^S, Rituparna Sen. Option pricing using Hawkes process

Bernhard Spangl, Matthias Medl, Johannes Tintner. MD-dating of pinewood using FTIR-spectroscopy and statistical learning algorithms like random forests and CNNs

Jasper ten Dam^S, A.J. Rodenburg, K. Katona, A. van Giessen. A model for alcohol consumption trajectories

Jan Vávra, Arnošt Komárek. Model based clustering of households from the EU-SILC database

Notes



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Dipartimento di
Scienze Economiche, Aziendali,
Matematiche e Statistiche "Bruno de Finetti"



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