

Program

Monday, July 22

08:00-08:45 Registration

08:45-09:00 Welcome Words
Aula Magna - Building 13

09:00-10:00 Plenary Session

PL-01 Opening lecture
Plenary, Aula Magna - Building 13
Chair: Angelo M. Mineo

Judith Rousseau Bayesian measures of uncertainty

10:30-12:30 Invited and Contributed Sessions

IS-02 Time series analysis for complex data
Invited session, Room 11 (Aula 11)
Organizer: Alexander Aue
Chair: Alexander Aue

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|--------------------|--|
| Giuseppe Cavaliere | Bootstrapping non-stationary stochastic volatility |
| Rainer Dahlhaus | Towards a general theory for non-linear locally stationary processes |
| Richard A. Davis | Noncausal vector AR processes with application to economic time series |
| Suhasini Subba Rao | Feature estimation and testing for linear regression with time series regressors |

IS-06 Bayesian computation

Invited session, Room 9 (Aula 9)

Organizer: Nicolas Chopin

Chair: Nicolas Chopin

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|-----------------|--|
| Simon Barthelmé | Kernel matrices in the flat limit |
| Nicolas Chopin | Adaptive tuning of Hamiltonian Monte Carlo within sequential Monte Carlo |
| Giacomo Zanella | On the robustness of gradient-based MCMC |

TCS-01 Goodness-of-fit and change-point methods

Topic-contributed session, Room 7 (Aula 7)

Organizer: Simos Meintanis

Chair: Simos Meintanis

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|--------------------|--|
| Dimitrios Bagkavos | A smooth goodness-of-fit test for densities |
| Bojana Milošević | New consistent characterization based goodness-of-fit tests |
| Marko Obradović | Comparison of symmetry tests in i.i.d. and non i.i.d. setting |
| Charl Pretorius | Detection of changes in panel data models with stationary regressors |
| Simos Meintanis | Change-Point detection with multivariate data: two-sample situations |

TCS-02 Advanced statistical methods for high-dimensional and complex data

Topic-contributed session, Room 6 (Aula 6)

Organizer: Luigi Augugliaro

Chair: Luigi Augugliaro

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|---------------------|--|
| Antonino Abbruzzo | Probabilistic networks for GPS data analysis |
| Giada Adelfio | Weighted local second-order statistics for complex spatio-temporal point processes |
| Francesca Martella | Biclustering for multivariate longitudinal data |
| Mariangela Sciandra | A unified definition of pseudo R-squared measures for linear models extensions |
| Gianluca Sottile | An extension of the censored gaussian lasso estimator |

TCS-03 Advances in asymptotic theory

Topic-contributed session, Room 5 (Aula 5)

Organizer: Qi-Man Shao

Chair: Qi-Man Shao

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|----------------------|---|
| Andreas Anastasiou | Bounds for the asymptotic distribution of the likelihood ratio |
| Bhaswar Bhattacharya | Detection thresholds for non-parametric tests based on geometric graphs |
| Xiao Fang | Wasserstein-2 bounds in normal approximation under local dependence |
| Matthias Schulte | Normal approximation of stabilising functionals |
| Qi-Man Shao | Recent progress of self-normalized limit theory |

CS-01 Recent advances in density estimation

Contributed session, Room 12 (Aula 12)

Chair: Tullia Padellini

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|----------------------|---|
| Zahra Amini Farsani | Optimization algorithm for parameter estimation in cell biology |
| Magnus Ekström | A class of asymptotically efficient estimators based on sample spacings |
| Federico Ferraccioli | Nonparametric likelihood density estimation on bounded domains |
| Ruey-Ching Hwang | Predicting LGD distributions with mixed continuous and discrete ordinal outcomes |
| Martin Kroll | Local differential privacy: Elbow effect in optimal density estimation and adaptation over Besov ellipsoids |
| Tullia Padellini | Persistent homology for kernel density exploration |

CS-02 Functional data analysis

Contributed session, Room 10 (Aula 10)

Chair: Andrej Srakar

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|------------------|--|
| Melanie Birke | Simultaneous confidence bands for the covariance kernel of Banach space valued functional data |
| Alessia Caponera | Asymptotics for spherical autoregressions |
| Alessia Pini | Measuring reliability of functional data: an application to human movements |
| Tomas Rubin | Sparsely observed functional time series: estimation and prediction |
| Maria Skupień | Big data and functional approach to signal analysis |
| Andrej Srakar | Program evaluation and causal inference for distributional and functional data: estimation of the effects of retirement on health outcomes |

CS-03 New approaches for analyzing high-dimensional data

Contributed session, Room 8 (Aula 8)

Chair: Jing Zhou

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|-------------------|--|
| Vera Djordjilović | Global test for high-dimensional mediation: testing groups of potential mediators |
| Zhaoyuan Li | A precise framework for testing weak instruments in high-dimensional instrumental variables regression |
| Myrto Limmios | Empirical maximization of R-statistics in the two-sample problem and nonparametric homogeneity tests in high dimension |
| Yiming Liu | Covariance estimation of matrix-variates through iterative process |
| Jing Zhou | Weight choice for composite and model-averaged estimation |

CS-04 Bayesian inference

Contributed session, Seminari B

Chair: Cristina Gutiérrez Pérez

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|--------------------------|--|
| Themistoklis Botsas | Bayesian approach to deconvolution in Well test analysis |
| Annalisa Cerquetti | Shannon entropy estimation via discovery rates: linking frequentist and Bayesian solutions |
| Alberto J. Coca | Nonparametric posterior contraction rates for discretely observed compound Poisson processes |
| Fabio Corradi | Relative privacy threats and learning from anonymized data |
| Matteo Giordano | Bernstein-von Mises theorems and uncertainty quantification for linear inverse problems |
| Cristina Gutiérrez Pérez | Bayesian inference for a Y-linked pedigree with non-syndromic hearing impairment |

14:00-16:00 Invited and Contributed Sessions

IS-04 High dimensional inference in structured models

Invited session, Room 12 (Aula 12)

Organizer: Florentina Bunea

Chair: Florentina Bunea

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|-------------------|---|
| Boaz Nadler | Robust sparse covariance estimation by thresholding Tyler's M-estimator |
| Philippe Rigollet | Minimax rates of estimation for smooth optimal transport maps |
| Marten Wegkamp | Essential regression |

IS-11 Empirical Bayes methods

Invited session, Room 11 (Aula 11)

Organizer: Roger Koenker

Chair: Roger Koenker

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|---------------|--|
| Jiaying Gu | Nonparametric empirical Bayes methods for ranking with longitudinal data |
| Yihong Wu | Optimal estimation of Gaussian mixtures via denoised method of moments |
| Cun-Hui Zhang | Second order Stein: SURE for SURE and other applications |

IS-22 Statistical aspects of extreme value analysis

Invited session, Room 9 (Aula 9)

Organizer: Gilles Stupfler

Chair: Gilles Stupfler

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|----------------|---|
| Marco Oesting | Estimation of the spectral measure of regularly varying random vectors |
| Simone Padoan | Nonparametric Bayesian estimation of the extremal dependence |
| Holger Rootzén | Is climate change making extreme rains more frequent, or bigger, or more dangerous? |

TCS-04 Statistics in biosciences

Topic-contributed session, Room 7 (Aula 7)

Organizer: Radu V. Craiu

Chair: Radu V. Craiu

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| Radu Craiu | Optimal designs in post-genome-wide association two-phase sampling studies |
| Giancarlo Manzi | Biases in bias elicitation |
| Lei Sun | The X factor: a robust and powerful approach to X-chromosome-inclusive whole-genome association studies |
| Ronghui Xu | Applying additive hazards model to learn from electronic health data |

CS-05 New developments in Bayesian analysis

Contributed session, Room 10 (Aula 10)

Chair: Hector Zarate

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|-----------------------|---|
| Ingvild Helgoy | A noise-robust fast sparse Bayesian learning model |
| Kostas Kalogeropoulos | On Bayesian structural equation modelling |
| Tatyana Krivobokova | Adaptive non-parametric estimation of mean and autocovariance in regression with dependent errors |
| Suleyman Ozekici | Bayesian analysis of hidden markov models |
| Panayiota Touloupou | Scalable inference for epidemic models with individual level data |
| Hector Zarate | Semiparametric modeling of the mean, variance and scale parameters in skew normal regression models: a Bayesian perspective |

CS-06 New developments in nonparametric regression

Contributed session, Room 8 (Aula 8)

Chair: Alexander Kreiß

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|-----------------|--|
| Cécile Adam | Flexible modelling and expectile regression |
| Kin Yap Cheung | High-dimensional local linear regression under sparsity and convex losses |
| Maarten Jansen | Multiscale local polynomial estimation from highly irregular data |
| Prashant Jha | A new graphical device and related tests for the shape of nonparametric regression function |
| Nick Kloodt | Two goodness of fit tests in nonparametric transformation models |
| Alexander Kreiß | Statistical inference on networks: Correlation bounds, mixing and m-dependence under random, time-varying network distances with applications to a dynamic network model based on counting processes |

CS-07 Recent advances in nonparametric regression

Contributed session, Room 6 (Aula 6)

Chair: Andrej Srakar

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| Mercedes Conde Amboage | Testing quantile regression models when the response variable is right censored |
| Rezaul Karim | Semiparametric quantile regression using quantile-based asymmetric family of densities |
| Alexandre Moesching | Shape and order constraints in nonparametric regression |
| Matti Pajari | Probabilistic comparison of quantile estimators for continuous random variables |
| Juan C. Pardo-Fernandez | Testing for superiority between two variance functions |
| Andrej Srakar | Wavelet regression estimator for compositional data |

CS-08 New trends in survival analysis and applied statistics

Contributed session, Seminari B

Chair: Grzegorz Wyłupek

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| Tom Britton | Statistical challenges when analysing emerging epidemic outbreaks |
| Negera W. Deresa | Bivariate parametric model for survival data under dependent censoring |
| Wenqing He | Perturbed-variance based null hypothesis tests with an application to Clayton models |
| Ayman Hijazy | Gamma process based models for disease progression |
| Chun Y. Lee | Testing for change-point in the covariate effects based on the Cox proportional hazards model |
| Grzegorz Wyłupek | Data-driven Kaplan-Meier one-sided two-sample tests |

16:30-18:30 Invited and Contributed Sessions

IS-17 Optimality in high-dimensional statistics

Invited session, Room 12 (Aula 12)

Organizer: Davy Paindaveine

Chair: Davy Paindaveine

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|------------------|---|
| Olivier Collier | Polynomial-time estimation of the mean |
| Alexei Onatski | Local asymptotic normality in high-dimensional spiked models |
| Thomas Verdebout | Detecting the direction of high-dimensional spherical signals |

IS-19 Spatial and space time modelling

Invited session, Room 11 (Aula 11)

Organizer: Aila Särkkä

Chair: Aila Särkkä

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| Anastassia Baxevani | Effective probability distributions for spatially dependent processes |
| Ute Hahn | Clusterwise marked spatial cluster point processes, with application to single molecule microscopy |
| Martin Schlather | Advanced models and methods for bivariate random fields |

IS-20 Measuring and testing independence

Invited session, Room 9 (Aula 9)

Organizer: Richard J. Samworth

Chair: Richard J. Samworth

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| Jonas Peters | The impossibility of conditional independence testing and a way out |
| Niklas Pfister | Kernel-based tests for joint independence |
| Richard Samworth | Nonparametric independence testing via mutual information |

TCS-06 Modelling and estimation of spatial and space time data

Topic-contributed session, Room 7 (Aula 7)

Organizer: Robert Stelzer

Chair: Robert Stelzer

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| David Berger | CARMA generalized processes and stochastic partial differential equations |
| Jürgen Kampf | Nonparametric estimation of the kernel function of stable moving average processes |
| Claudia Klueppelberg | Estimation of causal CARMA random fields |
| Bennet Ströh | Weak dependence of causal random fields and statistical applications |
| Qinwen Wang | Identification of the number of factors for factor modeling in high dimensional time series |

TCS-07 Sequential methodologies and their applications

Topic-contributed session, Room 6 (Aula 6)

Organizer: Alexander Tartakovsky

Chair: Alexander Tartakovsky

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|---------------------------|--|
| Michael Baron | Change-point detection in a Markov random field |
| Olympia Hadjiliadis | Trends and trades |
| Serguei Pergamenchtchikov | Asymptotically optimal pointwise and minimax change-point detection for general stochastic models with a composite post-change hypothesis |
| Yao Xie | Scan B-statistic for kernel change-point detection |
| Alexander Tartakovsky | Optimal change detection rules maximizing probability of detection and their application for efficient detection of near-earth space object tracks |

TCS-08 Geometry and invariance in analysis of shape and functional data

Topic-contributed session, Room 5 (Aula 5)

Organizer: Karthik Bharath

Chair: Karthik Bharath

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| Huiling Le | Limiting behaviour of Frechet Means on manifolds |
| Anuj Srivastava | Shapes analysis of functional data |
| Karthik Bharath | Invariant aspects of functional data with phase variation |

CS-09 Spatial analysis: modeling

Contributed session, Room 10 (Aula 10)

Chair: Hanne Rognebakke

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| Nan-Jung Hsu | Forecast-emphasized principal component for spatial temporal data |
| Hsin-Cheng Huang | False discovery rates to detect signals from incomplete spatially aggregated data |
| Yen-Ning Huang | Multivariate spatial models for severe storm activities |
| Hans Karlsen | A Spatial ARMA-GARCH model |
| Aleksandar Kolev | Spatially explicit capture recapture as a self exciting point process |
| Hanne Rognebakke | Statistical space-time projections of wave heights in the North Atlantic |

CS-10 Time-series analysis: modeling

Contributed session, Room 8 (Aula 8)

Chair: Martina Vittorietti

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|---------------------|---|
| Annika Betken | Testing for a change in the tail index of long-memory stochastic volatility time series |
| Paolo E. Cardone | Four factor model in Italian equities market |
| Feiqing Huang | Gaussian quasi-maximum likelihood estimation for linear GARCH models |
| Božidar Popović | A bivariate binomial count time series with application to the number of rainfall days |
| Lena Reichmann | Autoregressive-type time series models with bounded support |
| Martina Vittorietti | 2D real microstructures images: a great source of data |

CS-11 Change point analysis

Contributed session, Seminari B

Chair: Michal Pesta

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|---------------------|--|
| Alexander Dürre | Robust change-point detection in panel data |
| Farid El Ktaibi | Bootstrapping the empirical distribution of a stationary process with change-point |
| Matus Maciak | Structural breaks in nonparametric models via atomic pursuit methods |
| Pekka Malo | Non-parametric structural change detection in multivariate systems |
| Sévérien Nkurunziza | On some inferences in generalized Ornstein-Uhlenbeck processes with multiple change-points |
| Michal Pesta | Changepoint in non-stationary series without nuisance parameters |

09:00-10:00 Plenary Session

PL-02 Special Invited Lecture

Plenary, Aula Magna - Building 13

Chair: Qiwey Yao

Genevera Allen Data integration: data-driven discovery from diverse data sources

10:30-12:30 Invited and Contributed Sessions

IS-18 Statistical topological data analysis

Invited session, Room 12 (Aula 12)

Organizer: Wolfgang Polonik

Chair: Wolfgang Polonik

Paul Bendich Self-similarity matrices for high-dimensional time series
Claire Bréchet Robust shape inference from a sparse approximation of the Gaussian
trimmed loglikelihood.
Johannes Krebs Advances on the asymptotic normality of Betti numbers

IS-24 Likelihood extensions and modifications

Invited session, Room 11 (Aula 11)

Organizer: Cristiano Varin

Chair: Cristiano Varin

David Firth Quasi-likelihood for compositional data
Emil A. Stoltenberg Models and inference for on-off data via clipped Ornstein–
Uhlenbeck processes
Grace Yi Modeling and analysis of correlated data using pairwise likelihood

IS-25 Bayes and empirical Bayes for genomics

Invited session, Room 9 (Aula 9)

Organizer: Mark van de Wiel

Chair: Mark van de Wiel

Gwenaël G.R. Leday Fast Bayesian inference in large graphical models
Francesco Claudio Stingo Varying-sparsity regression models with application to can-
cer proteogenomics
Mirrelijm Van Nee An Empirical Bayes approach to co-data learning in ridge
models

TCS-09 Recent developments in statistics of manifold data

Topic-contributed session, Room 7 (Aula 7)

Organizer: Alfred Kume

Chair: Alfred Kume

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|---------------|---|
| Tomoaki Imoto | A method for constructing a circular distribution from a single valued analytic function |
| Kei Kobayashi | Statistical inference and data analysis on length metric spaces |
| Tomonari Sei | A weighted fshape model in computational anatomy |
| Katie Severn | Manifold valued data analysis of samples fo networks, with applications in corpus linguistics |

TCS-10 Recent developments in statistical learning and time series analysis for complex data

Topic-contributed session, Room 5 (Aula 5)

Organizer: Shih-Feng Huang

Chair: Shih-Feng Huang

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| Chihhao Chang | Estimation of breakpoints for extended interval regression models |
| Meihui Guo | Financial time series analysis with unsupervised learning |
| Shih-Feng Huang | Classification of temporal data using dynamic time warping and compressed learning |
| Liang-Ching Lin | Modeling financial interval time series |
| Mong-Na Lo Huang | Recurrent neural network for short-term load forecasting with spline bases |
| Li-Hsien Sun | Estimation under copula-based Markov mixture normal models for time series data |

CS-12 Modeling high dimensional data

Contributed session, Room 10 (Aula 10)

Chair: Jakob Söhl

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| Habib Ganjgahi | Scalable multivariate Bayesian model for multi-level data |
| Niels R. Hansen | Post-selection inference: risk estimation after data-driven model selection |
| Ker-Chau .i | A new multivariate analysis framework to investigate complex interaction patterns |
| Bastien Marquis | Image denoising using corrected information criterion and grouping |
| Jakob Söhl | Noise fit, estimation error and a sharpe information criterion |

CS-13 Computer intensive methods

Contributed session, Room 8 (Aula 8)

Chair: Bambang Suprihatin

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| Alexander Braumann | Bootstrapping for impulse response function coefficients in generalized linear dynamic factor models |
| Rasmus Erlemann | Simulating from conditional distributions |
| Marta Galvani | Generalized Bayesian ensemble modeling: methodological and computational aspects |
| Valentina Mameli | Bootstrap group penalties for predicting molecular properties |
| Marepalli Rao | Data analysis in the environment of destructive samples: the case of spina bifida |
| Bambang Suprihatin | Asymptotic distribution of the bootstrap parameter of an $AR(p)$ model |

CS-14 Recent advances in computationally intensive statistics

Contributed session, Room 6 (Aula 6)

Chair: Michael Weylandt

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| Apostolos Batsidis | Berkson's paradox and weighted distributions: an application to Alzheimer's disease |
| Ruggero Bellio | Point estimation based on confidence intervals |
| Kun-Lin Kuo | Efficient computation of pseudo-Gibbs distributions |
| Tabea Rebafka | Properties of the stochastic approximation EM algorithm with mini-batch sampling |
| Cecilia Viscardi | Weighted approximate Bayesian computation via Sanov's theorem |
| Michael Weylandt | Dynamic visualization and fast computation for convex clustering via algorithmic regularization |

CS-15 Graphical models

Contributed session, Seminari B (Seminari B)

Chair: Eugen Piricalabelu

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| Melih Agraz | Gaussian graphical model under different model selection criteria for Lasso regression |
| Ezgi A. Demirci | A new steady-state modeling approach for protein-protein interaction networks |
| Andrea Lazzarini | Bayesian stochastic search for Ising chain graph models |
| Margot Matteredne | The average conditional and partial Kendall's tau |
| Federica Onori | Experience-based food insecurity scales, a non-aggregative approach to synthesis of indicators |
| Eugen Piricalabelu | Community detection for probabilistic graphical models |

14:00-16:00 Invited and Contributed Sessions

IS-03 Machine learning and optimization

Invited session, Room 11 (Aula 11)

Organizer: Francis Bach

Chair: Francis Bach

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|-----------------|---|
| Quentin Berthet | Optimal transport methods in statistics and machine learning |
| Claire Boyer | On the structure of solutions of convex regularization: gradient TV minimization and co |
| Alessandro Rudi | Scaling up optimal kernel methods for large scale machine learning |

IS-10 Statistical inference and PDE's

Invited session, Room 9 (Aula 9)

Organizer: Marc Hoffmann

Chair: Marc Hoffmann

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|-------------------|---|
| Randolf Altmeyer | Nonparametric drift estimation for linear SPDEs from local measurements |
| Richard Nickl | Consistent Bayesian inference for some elliptic PDE models |
| Vincent Rivoirard | Nonparametric estimation for size-structured population of cells |

TCS-11 Bootstrap and time series

Topic-contributed session, Room 7 (Aula 7)

Organizer: Dimitris Politis

Chair: Dimitris Politis

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| Carsten Jentsch | Bootstrapping Hill estimator and tail arrays sums for regularly varying time series |
| Jonas Krampe | Bootstrap based inference for sparse high-dimensional time series models |
| Michele La Rocca | NAR-Sieve bootstrap based on extreme learning machines |
| Marco Meyer | Extending the validity of frequency domain bootstrap methods to general stationary processes |
| Efstathios Paparoditis | Recent advances in bootstrapping functional time series |
| Dimitris Politis | Predictive inference for locally stationary time series |

TCS-12 High frequency, continuous time and non-stationarity

Topic-contributed session, Room 6 (Aula 6)

Organizer: Claudia Klüppelberg

Chair: Claudia Klüppelberg

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| Dirk-Philip Brandes | Lévy driven continuous time moving average and strong mixing processes sampled at a renewal sequence |
| Thiago Do Rego Sousa | Method of moment based estimation for the multivariate COG-ARCH(1,1) processes |
| Mark Podolskij | On optimal estimation of random quantities associated with Levy processes |
| Daniel Rademacher | Asymptotic normality of integrated periodogram operators |
| Robert Stelzer | Continuous-time locally stationary time series models |

TCS-13 Algebraic statistics

Topic-contributed session, Room 5 (Aula 5)

Organizer: Carlos Améndola

Chair: Carlos Améndola

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| Alexandros Grosdos Koutsoumpelias | Moments of local Dirac mixtures - algebra and applications in statistics |
| Orlando Marigliano | Discrete statistical models with rational maximum likelihood estimator |
| Fabio Rapallo | Circuits in experimental design |
| Elina Robeva | Maximum likelihood estimation for totally positive densities |
| Carlos Améndola | Autocovariance varieties of moving average random fields |

CS-16 Advanced topic in nonparametric modeling

Contributed session, Room 12 (Aula 12)

Chair: Qiwei Yao

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|--------------------------|---|
| Vahe Avagyan | Stable IPW estimation for longitudinal studies |
| Beatrice Laurent | Aggregated tests of independence based on HSIC measures |
| Anouar Meynaoui | Aggregated tests of independence based on HSIC measures |
| Paula Saavedra-Nieves | Data-driven support estimation |
| Maria-Pia Victoria-Feser | Bias reduced simulation-based estimators in high dimensions |
| Qiwei Yao | Estimation of subgraph densities in noisy networks |

CS-17 Robust and nonparametric methods

Contributed session, Room 10 (Aula 10)

Chair: Zbigniew S. Szewczak

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| Giacomo Francisci | A modification of the simplicial depth function |
| Stanislav Nagy | The halfspace depth characterization problem |
| Beatriz Pateiro-López | Rate-optimal estimators for the volume of a set |
| Serhan Sadikoglu | Misclassification-robust semiparametric estimation of single-index binary choice models |
| Adrien Saumard | Robust to outliers of median-of means |
| Zbigniew S. Szewczak | On martingale CLT for strictly stationary sequences |

CS-18 Advanced topic in econometrics

Contributed session, Room 8 (Aula 8)

Chair: Riccardo Parviero

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|-------------------|--|
| Tobias Fissler | Consistent scoring functions and murphy diagrams for set-valued measures of systemic risk |
| Vladimír Holý | Modeling discrete trade durations with excessive zeros |
| Paul Kvam | Using randomization testing to estimate the effects of gerrymandering in US elections |
| Yushu Li | Estimating APGARCH-Skew-t model by wavelet support vector machines |
| George A. Morcerf | The impact of the international commodity market on the Brazilian economy: an analysis using global-VAR (GVAR) |
| Riccardo Parviero | A viral approach to early prediction of adoptions of new products |

CS-19 Inference for high-dimensional data

Contributed session, Seminari B (Seminari B)

Chair: Zbigniew Szkutnik

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|---------------------|---|
| Stanislav Anatolyev | A ridge to homogeneity |
| Leonid Iosipoi | Variance Reduction via Empirical Variance Minimization |
| Peter Karlsson | An investigation of the performances of Liu estimators in a beta regression context in the presence of multicollinearity. |
| Danijel Kivaranovic | Asymptotic equivalence of inference post-model-selection with the lasso on randomized data and on a subset of the data |
| Luca Martino | Compressed Monte Carlo |
| Zbigniew Szkutnik | Discrepancy principle for Poisson inverse problems |

16:30-17:30 Poster Session

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| Konrad Abramowicz | Family-wise error rate on domain subsets |
| Zahra Amini Farsani | Modeling the solar energies using statistical methods |
| Martina Amongero | Stochastic mixed models with different SAEM based algorithms |
| Georgios Aristotelous | Posterior predictive model assessment for epidemic models based on partially observed data |
| Xavier Bardina | Coinfection in a stochastic model for bacteriophage systems |
| Karim Benhenni | Local polynomial estimation of regression operators from functional data with correlated errors |
| Bożena Cegiełka | Hold your breath! Mathematical approach to the influence of smog on the respiratory system. |
| Yi-Ju Chen | Impact of multiple imputation strategies on the misspecified random effects in generalized linear mixed models for incomplete longitudinal data |
| Vivian Yi-Ju Chen | A comparison of geographically weighted regression models for count data |
| Nadia Dardenne | Dimensional reduction of a quality of life questionnaire: is confirmatory factor analysis a powerful tool? |
| Joanna Gołdyn | Extreme value analysis for PM2.5 air pollution in Poland |
| Tianyuan Guan | Sample size calculations in simple linear regression: problems and remedies |
| Niels Richard Hansen | Statistical learning of ordinary differential equation systems |
| Kai Hencken | Analysis of failure times of a system consisting of a mixture of two components including inspections |
| Sondre Hølleland | Spatio-temporal ARMA-GARCH model |
| Zuzana Hubnerova | Trends modelling in fire weather index monthly maxima |
| Dimitris Ioannidis | Local linear estimators in quantile regression with errors-in-variables |
| Seongjae Joo | Bootstrap of nonparametric dynamic discrete choice model |
| Jan Kalina | Nonparametric tests of symmetry for non-elliptical distributions |
| Min Jung Kim | Nonparametric regression Kriging with varying coefficient regression models |
| Tereza Konečná | Spatial analysis of laser-induced breakdown spectroscopy data for a sandstone sample |
| Dominika Korbas | Statistical analysis of the impact of air pollution on the circulatory system |
| Kyeongjun Lee | Approximate maximum product of spacing estimation of the parameter for a half-logistic distribution based on progressive censoring |
| Pai-Ling Li | Functional data clustering and missing value imputation |
| Kuo-Chin Lin | Modified information matrix tests for detecting misspecification in the random-effects structure of cumulative logit models |
| Yi-Chen Lin | The determinants of food waste: evidence from a semiparametric functional-coefficient cointegration test |

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| Marco Longfils | Single diusing particles observed through a confocal microscope: an application of the doubly stochastic Poisson point process. |
| Benjamin Marshall | Bayesian semi-parametric analysis of multivariate continuous responses with variable selection |
| Vishal Midya | Bias in Bayes factor and calibrated Bayes factor for interval null hypothesis |
| Wessel Hendrik Moolman | Applications of the negative hypergeometric distribution |
| Thi Kim Hue Nguyen | Guided structure learning of DAGs for count data |
| Thobeka Nombebe | Comparing the impact of using restricted against unrestricted residuals in bootstrap-based hypothesis testing in a simple regression model |
| Ivan Papić | Parameter estimation for non-stationary Fisher-Snedecor diffusion |
| Thi Huong Phan | Hierarchical spatial survival models with application to life-cell imaging data |
| Martina Raggi | Exact parametric causal mediation analysis for binary outcomes with binary mediators |
| Denise Rava | Causal Quantile Learner: causal inference for structural equation model |
| Jose Rodríguez-Avi | An economic application of the CTP distribution |
| Carles Rovira | Strong approximations of Brownian sheet by uniform transport processes |
| Sara Salvador | Bayesian test of bimodality for the generalized Von Miss distribution |
| Istoni Sant'Ana | A Bayesian non-homogeneous Markov chains to modeling and analyzing multiple sclerosis progression |
| Giovanni Saraceno | Robust multivariate estimation based on statistical depth filters |
| Martin Schindler | A new multivariate two-sample rank test |
| Rowland Seymour | Bayesian non-parametric inference for stochastic epidemic models |
| Miroslav Šiman | New advances in multiple-output quantile regression |
| Neill Smit | A comparison of two Bayesian accelerated life testing models |
| Stefan Stein | A Sparse Beta model with covariates |
| Nenad Suvak | Statistical analysis of stationary Fisher-Snedecor diffusion |
| Patrik Tardivel | On the sign recovery by LASSO, thresholded LASSO and thresholded Basis Pursuit Denoising |
| Olympia Tumulva | Model-based approach in dissolution profile comparison: alternative to f_2 metric |
| Jan Van Waaij | Detection of communities in the stochastic block model: consistency and confidence sets |
| Kata Vuk | Change-point detection based on weighted two-sample U-statistics |
| Zhenggang Wang | CLT for linear spectral statistics of a class of Wigner-type matrices with general variance profiles |
| Cuiling Wang | Evaluate association and diagnosis of disease using longitudinal markers with application to Alzheimer's Disease neuropathology |

Ke Yu Depth for Riemannian manifold-valued functional data based on optimal transport

17:30-18:30 Plenary Session

PL-03 BS-EMS Lecture

Plenary, Aula Magna - Building 13

Chair: Mats Gyllenberg

Aad van der Vaart Nonparametric Bayes: review and challenges

Wednesday, July 24

09:00-10:00 Plenary Session

PL-04 Forum Lecture I

Plenary, Aula Magna - Building 13

Chair: Irène Gijbels

Victor Panaretos Amplitude and phase variation of random processes: part I

10:30-12:30 Invited and Contributed Sessions

IS-05 Bayesian nonparametrics and uncertainty quantification

Invited session, Room 12 (Aula 12)

Organizer: Ismael Castillo

Chair: Ismael Castillo

Eduard Belitser Robust inference for general framework of projection structures
Botond Szabo Spike and slab priors: recovery, uncertainty quantification and computational issues
Keisuke Yano On frequentist coverage errors of Bayesian credible sets in moderately high dimensions

IS-13 Directional statistics

Invited session, Room 11 (Aula 11)

Organizer: Christophe Ley

Chair: Christophe Ley

Rosa M. Crujeiras On smoothing methods for circular regression with categorical data
Peter Jupp Parallel lines and rotations of crystals
Davy Paindaveine Inference for spherical location under high concentration

IS-14 Statistical analysis of non-standard data types

Invited session, Room 9 (Aula 9)

Organizer: Regina Liu

Chair: Regina Liu

George Michailidis Change point estimation in a dynamic stochastic block model
Peter X. K. Song Regression analysis of networked data
Shahin Tavakoli A Spatial modeling approach for linguistic object data: analysing dialect sound variations across Great Britain

TCS-14 Piecewise deterministic Monte Carlo methods

Topic-contributed session, Room 7 (Aula 7)

Organizer: Kengo Kamatani

Chair: Kengo Kamatani

| | |
|----------------------|---|
| Christophe Andrieu | Hypoocoercivity of some PDMP Monte Carlo |
| Joris Bierkens | Spectral theory of the zigzag sampler |
| George Deligiannidis | The bouncy particle sampler and randomized HMC |
| Alain Durmus | On PDMP and their invariant measure |
| Chris Sherlock | Hug and Hop: explicit, non-reversible, contour-hugging MCMC |
| Kengo Kamatani | Scaling limits of piecewise deterministic Monte Carlo methods |

TCS-15 Recent developments in statistical inference for stochastic processes

Topic-contributed session, Room 5 (Aula 5)

Organizer: Hiroki Masuda

Chair: Yasutaka Shimizu

| | |
|------------------------|--|
| Alessandro De Gregorio | Regularization methods for stochastic differential equations |
| Teppei Ogihara | Parameter estimation for misspecified diffusion with market microstructure noise |
| Yasutaka Shimizu | Model selection for determinantal point processes |
| Masayuki Uchida | Parametric inference for a discretely observed SPDE |

CS-20 Recent advances in stochastic modeling

Contributed session, Room 10 (Aula 10)

Chair: Zhixiang Zhang

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|------------------------|--|
| Markus Bibinger | Parameter estimation for stochastic PDEs using high-frequency observations |
| Claudia Furlan | How simultaneous confidence regions act in nonlinear diffusion models |
| Johannes Heiny | High-dimensional Kendall's Tau and Spearman's Rho correlation matrices |
| David Márquez-Carreras | Semilinear fractional stochastic differential equations driven by a γ -Hölder continuous signal with $\gamma > 2/3$. |
| Nestor Parolya | Tests on the block-diagonal covariance matrix with a large number of blocks |
| Zhixiang Zhang | Asymptotic independence of spiked eigenvalues and linear spectral statistics for large sample covariance matrices |

CS-21 Stochastic processes

Contributed session, Room 8 (Aula 8)

Chair: Nuno Picado

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|---------------------|--|
| Paolo E. Cardone | Public support for an EU-wide social benefit scheme: evidence from Round 8 of the European Social Survey (ESS) |
| Martina Favero | A dual process for the coupled Wright-Fisher diffusion |
| Chrysoula Ganatsiou | On the expected extinction time for the adjoint birth-death circuit chains in random environments |
| Emanuele Gramuglia | A fault prediction and classification method for temporal data |
| Pierre-Yves Louis | Is-ClusterMPP: clustering algorithm through point processes and influence space towards high-dimensional data |
| Nuno Picado | Deciding about the emptiness of the interior of a manifold based on a dependent sample of points |

CS-22 New developments in multivariate analysis

Contributed session, Room 6 (Aula 6)

Chair: Helena S. Rodrigues

| | |
|--------------------------|---|
| Farrukh Javed | Fourth cumulant for multivariate aggregate claim models |
| Artür Manukyan | Graph-based parameter-free clustering algorithms based on Ripley's K-function |
| Chiara Masci | Evaluating class effects on the joint student achievements in different subjects: a bivariate semi-parametric mixed-effects model |
| Carel Peeters | Markov properties of the common factor analytic model |
| Constantinos Petropoulos | Componentwise estimation of ordered scale parameters of two exponential distributions under a general class of loss function |
| Helena S. Rodrigues | The influence of sponsorship in the intention purchase of Portuguese consumers |

CS-23 Likelihood based modeling

Contributed session, Seminari B

Chair: Paolo Vidoni

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|-----------------------|---|
| Maryam Alamil | A statistical learning approach to infer transmissions of infectious diseases from deep sequencing data |
| Alessandro Barbiero | Generating correlated discrete data through the t copula |
| Valentina Cueva López | A new regression model |
| Estelle Kuhn | Estimation of the Fisher information matrix in latent variables models based on the score function |
| Rosalba Radice | Recursive copula additive models to estimate the effect of a binary endogenous variable in a count regression |
| Paolo Vidoni | Inference for multiplicative model combination using score matching |

09:00-10:00 Plenary Session

PL-05 Forum Lecture II

Plenary, Aula Magna - Building 13

Chair: Lutz Dümbgen

Victor Panaretos Amplitude and phase variation of random processes: part II

10:30-12:30 Invited and Contributed Sessions

IS-09 Data analytics

Invited session, Room 12 (Aula 12)

Organizer: Yannig Goude

Chair: Yannig Goude

Matteo Fasiolo Non-parametric probabilistic regression modelling of electricity demand data

Davide Ferrari Ranking the importance of genetic factors by variable-selection confidence sets

Pierre Gaillard Target tracking for contextual bandits: application to demand side management

IS-12 Statistical analysis of network data

Invited session, Room 11 (Aula 11)

Organizer: Eric Kolaczyk

Chair: Pierre Barbillon

Mingli Chen Nonlinear factor models for network and panel data

Marianna Pensky Estimation and clustering in popularity adjusted stochastic block model

Timothée Tabouy Variational inference for stochastic block models from sampled data

IS-16 Dependence modelling with copulas

Invited session, Room 9 (Aula 9)

Organizer: Johanna Neslehova

Chair: Johanna Neslehova

Irène Gijbels Test for covariate effects in conditional copula models

Thibault Vatter Solving estimating equations with copulas

Stanislav Volgushev Estimating the extremal dependence structure of time series extremes using block maxima

TCS-16 Advanced statistical modeling in particle physics and astronomy

Topic-contributed session, Room 7 (Aula 7)

Organizer: lessandra R. Brazzale

Chair: Mauro Bernardi

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|----------------------|--|
| Alessandro Casa | Nonparametric semisupervised classification and variable selection for new physics searches |
| Denise Costantin | A novel approach for pre-filtering event sources using the Von Mises distributions |
| Alex Geringer-Sameth | Dark matter interpretations of gamma-ray signals in the presence of unknown astrophysical backgrounds |
| Andrea Sottosanti | Astronomical source detection and background separation via hierarchical Bayesian nonparametric mixtures |
| Pietro Vischia | The DAB: Detecting Anomalies via Bootstrapping |

TCS-17 YUIMA package: high-frequency and computational statistics

Topic-contributed session, Room 5 (Aula 5)

Organizer: Kengo Kamatani

Chair: Kengo Kamatani

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|-------------------|---|
| Shoichi Eguchi | Stepwise model selection for SDEs in YUIMA |
| Emanuele Guidotti | Towards coding of the asymptotic expansion formula in YUIMA |
| Yuta Koike | High-dimensional covariance estimation in YUIMA package |
| Lorenzo Mercuri | Finite mixture approximation of $CARMA(p, q)$ model |
| Yuma Uehara | Noise estimation for ergodic Levy driven SDE in YUIMA package |

CS-24 Graph theory and limit theorem for stochastic processes

Contributed session, Room 10 (Aula 10)

Chair: Fanny Villers

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|------------------------|---|
| Istvan Fazekas | Asymptotic properties of a random graph evolution model driven by a branching process |
| Raúl Hernández-Molinar | On the application of empirical modelling using extreme values theory to propose acceptance limits in quality control processes |
| Adam Jakubowski | A new central limit theorem for GARCH processes without Kesten's regularity |
| Ivo Stoeper | Parameter estimation of finite mixtures based on the empirical identity process |
| Fanny Villers | Graph inference with clustering and false discovery rate control |

CS-25 Markov models and applications

Contributed session, Room 8 (Aula 8)

Chair: Nadarajah Ramesh

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|-------------------------|---|
| Leila Hosseini | Optimal investment for an insurer under Levy process with MVC criterion |
| Thomas Hotz | Analysing Markov chains using random measures |
| Barbara Jasiulis-Gołdyn | Extremal Markov chains driven by the Kendall convolution |
| Alastair Lamont | A missing value approach for breeding value estimation |
| Emilia Pompe | A framework for adaptive MCMC targeting multimodal distributions |
| Nadarajah Ramesh | Doubly stochastic exponential pulse models for rainfall |

CS-26 Advanced topic in regression analysis and change-point detection

Contributed session, Room 6 (Aula 6)

Chair: Martin Tveten

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|-------------------|---|
| Prajamitra Bhuyan | Analysing causal effect of London cycle superhighways on traffic congestion |
| Anja Mühlemann | Optimal solutions to the isotonic regression problem |
| Ajmal Oodally | Convergent estimation algorithm for frailty models based on integrated partial likelihood |
| Markus Pohlmann | Bump detection in the presence of dependency |
| Georgiy Sofronov | Change-point modelling with applications in early detection of students at risk |
| Martin Tveten | Tailoring PCA for detecting sparse changes in multi-stream data |

CS-27 Recent advances in robust statistics

Contributed session, Seminari B

Chair: Duc-Khanh To

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|------------------------------------|--|
| Amenah Abdulateef Hameed Al-Najafi | Weighted least squares estimators for the Parzen tail index |
| Melisande Albert | Separation rates for independence tests based on wavelet decomposition |
| Irène Gannaz | Inference of dependence graphs by multiple testing, with application to brain connectivity |
| Halehsadat Nekooe Zahraei | Missing value imputation in cluster analysis |
| Christof Schötz | Convergence rates for the (generalized) Fréchet mean via the quadruple inequality |
| Duc-Khanh To | A mean score equation-based approach to correct for nonignorable verification bias in estimation of the volume under the ROC surface |

14:00-16:00 Invited and Contributed Sessions

IS-01 Data privacy and protection

Invited session, Room 12 (Aula 12)

Organizer: Louis Aslett

Chair: Louis Aslett

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|----------------|---|
| Louis Aslett | Towards encrypted inference for arbitrary models |
| Murray Pollock | Confusion: developing an information-theoretic secure approach for multiple parties to pool and unify statistical data, distributions and inferences. |
| Sinan Yildirim | Exact MCMC with differentially private moves |

IS-21 Partially observed functional data

Invited session, Room 11 (Aula 11)

Organizer: Laura Sangalli

Chair: Laura Sangalli

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|---------------|---|
| Antonio Elías | Depth measures for partially observed functional data |
| David Kraus | Functional data analysis and censoring |
| Dominik Liebl | Reconstructing partially observed functional data with (non-)systematically missing parts |

IS-23 Stein's method and information theory

Invited session, Room 9 (Aula 9)

Organizer: Yvik Swan

Chair: Yvik Swan

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|----------------|--|
| Benjamin Arras | On Stein's method for multivariate self-decomposable laws with finite first moment |
| Yvik Swan | Stein kernel representations and their applications |
| Lihu Xu | Stable approximation by Stein's method |

TCS-18 Recent advances in time series analysis and space-time models

Topic-contributed session, Room 7 (Aula 7)

Organizer: Ta-Hsin Li

Chair: Ta-Hsin Li

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|----------------------|--|
| Bei Chen | Recurrent neural networks for ARMA model selection |
| Liudas Giraitis | Robust tests for white noise and cross-correlation |
| Steffen Grønneberg | On partial-sum processes of ARMAX residuals |
| Yiannis Kamarianakis | How many filters are enough? A new algorithm for eigenvector space-time filtering |
| Ta-Hsin Li | Quantile-frequency analysis and functional principal components for time series classification |

TCS-19 Recent advances in simulation-based methods for numerical integration and inference

Topic-contributed session, Room 5 (Aula 5)

Organizer: Luca Martino

Chair: Luca Martino

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|-----------------------|---|
| Petar Djuric | Inferring causality by Gaussian processes |
| Lorenzo Frattarolo | Stirring the mix: negative association and permutation polytopes |
| Javier Lopez-Santiago | Bayesian inference for parameter estimation in high dimension space in Astrophysics |
| Joaquin Miguez | Nested filters for joint parameter estimation and tracking of state-space nonlinear systems |
| Jesse Read | Multi-output chain models and their application in data streams |
| Francisco Ruiz | A contrastive divergence for combining variational inference and MCMC |

CS-28 Extreme value theory and probability inequalities

Contributed session, Room 10 (Aula 10)

Chair: Edoardo Vignotto

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|-------------------------|--|
| Pascal Dkengne Sielenou | Estimation of the extrapolation range associated with extreme-value models: Application to the assessment of sensors reliability |
| Kaushik Jana | Scoring predictions at extreme quantiles |
| Ivan Nourdin | Berry-Esseen bounds in the Breuer-Major CLT and Gebelein's inequality |
| Gilles Stupfler | Extremiles: a new perspective on asymmetric least squares |
| Edoardo Vignotto | Extreme value theory for open set classification - GPD and GEV classifiers |

CS-29 Recent advances in asymptotic and queueing theory

Contributed session, Room 8 (Aula 8)

Chair: Alberto Pessia

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|------------------|--|
| Lutz Duembgen | Bounding distributional errors via density ratios |
| Lothar Heinrich | Large domain statistics for Brillinger-Mixing spatial point processes |
| Alisa Kirichenko | Revisiting minimax property |
| Sofiane Ouazine | Uncertainty analysis of the GI/M/1 queue with negative customers |
| Alberto Pessia | Numerical evaluation of the transition probability of the simple birth-and-death process |

CS-30 Recent advances in decision and information theory

Contributed session, Room 6 (Aula 6)

Chair: Jonas Moss

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|-------------------|---|
| Dragi Anevski | Estimation of discrete monotone distribution with a prior model selection |
| Stefan Heyder | Non-asymptotic, universal confidence sets for intrinsic means on the circle by mass concentration |
| El Mehdi Issouani | Automatic text simplification |
| Gytis Kulaitis | What is the resolution of a microscope? A statistical minimax point of view |
| Bo Li | Design and implementation of recommender based on debiased learning to rank |
| Jonas Moss | R squared and decision theory |

CS-31 Recent advances in supervised learning

Contributed session, Seminari B

Chair: Chun Yi Yeh

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|------------------------|--|
| Christopher Dunderdale | A machine learning approach to fault classification in photovoltaic systems using infrared imagery |
| Riccardo Giubilei | ETrees: a generalization of conditional trees to mixed-type data |
| Amine Ounajim | Mixture of varying coefficient models with random effects |
| Dragana Radojicic | Machine learning in finance |
| Oleg Sysoev | PSICA: decision trees for probabilistic subgroup identification with categorical treatments |
| Chun Yi Yeh | Develop a risk prediction model for depression based on text/documents mining techniques |

16:30-17:30 Plenary Session

PL-06 Special Invited Lecture

Plenary, Aula Magna - Building 13

Chair: Ingrid Glad

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| Gilles Blanchard | Sketched learning using random moments |
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09:00-11:00 Invited and Contributed Sessions

IS-07 Multiscale methods

Invited session, Room 12 (Aula 12)

Organizer: Idris Eckley

Chair: Idris Eckley

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|------------------|--|
| Kathryn Leeming | Local white noise testing with wavelets |
| Rainer Von Sachs | Intrinsic wavelet regression for curves and surfaces of Hermitian positive definite matrices |
| Idris Eckley | A wavelet-based imputation approach for multivariate time series |

IS-08 Recent advances in statistical inference with big data

Invited session, Room 11 (Aula 11)

Organizer: Yingying Fan

Chair: Yingying Fan

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|------------------|---|
| Thomas Berrett | The conditional permutation test for independence while controlling for confounders |
| Marina Bogomolov | Controlling FDR while highlighting selected discoveries |
| Yuekai Sun | Valid inference in bandit problems |

IS-15 Inference in statistical inverse problems

Invited session, Room 9 (Aula 9)

Organizer: Axel Munk

Chair: Lutz Dümbgen

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|-------------------|---|
| Katharina Proksch | Tests for qualitative features in the random coefficients model |
| Kolyan Ray | Nonparametric statistical inference for the drift of a multidimensional diffusion |
| Frank Werner | Statistical inference for molecules: how many and where? |

TCS-20 Distance correlation and kernel independence tests

Topic-contributed session, Room 10 (Aula 10)

Organizer: Dominic Edelmann

Chair: Dominic Edelmann

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|------------------|---|
| Dominic Edelmann | A simple yet rigorous introduction into distance correlation |
| Tamara Fernandez | RKHS testing for independence under right-censored data |
| Jochen Fiedler | The dcortools R package: fast algorithms for the calculation of the distance correlation and applications |
| Mahsa Ghanbari | The distance precision matrix: computing networks from non-linear relationships |
| Dino Sejdinovic | RKHS mean embeddings and hypothesis testing |

TCS-05 Stochastic orders and applications

Topic-contributed session, Seminari B

Organizer: Milto Hadjikyriakou

Chair: Milto Hadjikyriakou

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|----------------|--|
| Idir Arab | Some recent results on generalized ageing orderings with applications |
| Félix Belzunce | Testing stochastic dominance for dependent random variables (paired data) |
| Tommaso Lando | Generalizing stochastic orders through probability transformation functions |
| Rosa Lillo | Extremality order and extremes detection in the Cantabrian coast |
| Tilo Wiklund | Probabilities of exceeding mean or mode: ordering the Beta-distributions by skewness |

CS-32 Advanced topic in non-standard modeling

Contributed session, Room 5 (Aula 5)

Chair: Chi Zhang

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|-------------------|---|
| Anne Gegout Petit | Network inference for truncated gaussian data |
| Wen-Han Hwang | Right-censored mixed Poisson count models with detection times |
| Saebom Jeon | A multidimensional latent variable analysis for longitudinal data |
| Matthew Schofield | Latent class models for diagnostic testing with no gold standard |
| Chi Zhang | Valid properties of truncated Student-t distribution with applications in the analysis of censored data |

CS-33 Recent advances in semiparametric modeling

Contributed session, Room 6 (Aula 6)

Chair: Motahareh Parsa

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|------------------|--|
| Hilal Arslan | The impacts of PM10 and SO2 concentrations on hospital admissions for pneumonia and chronic obstructive pulmonary disease in canakkale, Turkey |
| Gioia Di Credico | A Bayesian approach to estimate the number and position of knots for linear regression splines |
| Jeongmin Jeon | Additive regression with mixed predictors and incomplete Hilbertian responses |
| Motahareh Parsa | On AFT mixture cure models, benefits and estimation |

CS-34 New developments in multivariate models

Contributed session, Room 7 (Aula 7)

Chair: Inês Sousa

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|------------------|---|
| Melih Agraz | Active learning and experimental design |
| Aoibheann Brady | A systematic checklist for causal assessment of environmental observational studies |
| Manuela Cattelan | Plackett models for dependent discrete data |
| Mauro Gasparini | Proper likelihood ratio based ROC curves |
| Wei Hsiang Lin | Build imbalanced classifier via kernel trick and evaluate its effect |
| Inês Sousa | Longitudinal models with informative time measurements |

CS-35 New methods in multivariate analysis

Contributed session, Room 8 (Aula 8)

Chair: Marco Stefanucci

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|----------------------|--|
| Hojjatollah Farahani | Fuzzy item ambiguity analysis in psychological testing and measurement |
| Olga Gorskikh | changedetection: an R package for nonparametric structural change detection in multivariate systems |
| Vojtěch Kika | Multivariate associations measures |
| Xiaoran Lai | Likelihood-free inference of multi-scale mathematical model for personalised breast cancer treatment |
| Marco Stefanucci | Overlap group Lasso in functional regression |

11:30-12:30 Plenary Session

PL-07 Closing Lecture

Plenary, Aula Magna - Building 13

Chair: Anne Gegout-Petit

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| John Lafferty | Computational perspectives on some statistical problems |
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