



13th Virtual Conference of the Italian Region of the International Biometric Society (IBS)



Sept 20

14:00 - 14:15	Opening and welcome address President of the Italian Region-IBS (Stefania Galimberti, Università di Milano-Bicocca) and the Dean of the School of Medicine Università Milano-Bicocca (Maria Grazia Valsecchi)
14:15 - 15:15	Invited Session on Networking of Italian Region-IBS with the Italian Statistical Society (SIS) entitled “Bridging Methodological Stats and Bio Stats for the 2020s challenges” organized by Fulvia Mecatti (Università Milano Bicocca) and Paola Vicard (Università di Roma tre) <i>Chair: Fulvia Mecatti (Università Milano-Bicocca)</i>
14:15	Introduction to the session - Fulvia Mecatti (Università Milano Bicocca)
14:20	The role of statistical reasoning in epidemiological research: the experience during the Covid-19 emergency - Fabio Divino (Università del Molise)
14:40	Bias correction for underreported data: a Bayesian approach- Serena Arima (Università del Salento)
15:00	Optimal estimation of the sparsity index in Poisson size-biased sampling - Marco Bonetti (Università Bocconi)
15:20 - 15:30	coffee break
15:30-16:30	Contributed session dedicated to young researchers (age ≤ 35 years) <i>Chair: Luca Tardella (Università Sapienza di Roma)</i>
15:30	Spatio-temporal modelling of COVID-19 incident cases using Richards' curve: an application to the Italian regions - Pierfrancesco Alaimo Di Loro (Sapienza Università di Roma)
15:45	Methodological challenges in the statistical analysis of the effect of a non randomized treatment on COVID-19 patients - Valentina Veronesi (Università di Milano-Bicocca)
16:00	Identification of predictive scores in Post-Covid-19 Syndrome with CHAID analysis and Logistic Regression - Maria De Martino (Università di Udine)
16:15	Augmented Orthogonal Uniform Composite Designs for Fitting Third-Order Response Surfaces - Yankam Brenda (University of Nigeria)
16:30 - 16:40	coffee break
16:40 - 17:45	Invited Session on Networking of the Italian Region-IBS with the STRengthening Analytical Thinking for Observational Studies (STRATOS) Initiative , entitled “The STRATOS initiative, illustrated by issues in selection of variables and their functional form, high-dimensional data and causal inference” , organized by Willi Sauerbrei (University of Freiburg) and Federico Ambrogi (Università di Milano) on behalf of STRATOS Initiative <i>Chair: Federico Ambrogi (Università di Milano)</i>
16:40	Introduction to the session - Willy Sauerbrei (University of Freiburg)
16:45	Towards guidance for selection of variables and their functional forms - Willi Sauerbrei (University of Freiburg) on behalf of group 2
17:05	Foundations in Causal Thinking for Health Data Statisticians - Erica Moodie (McGill University) on behalf of group 7
17:25	Analysis of high-dimensional data: Opportunities, challenges and goals - Riccardo De Bin (University of Oslo) on behalf of group 9
17:45-18:15	Keynote Speech “The Use of External Control Data for Predictions and Futility Interim Analyses in Clinical Trials” – Lorenzo Trippa (Harvard University) <i>Chair: Elia Biganzoli (Università di Milano)</i>
18:15-18:40	Poster Overview Session <i>Chair: Luca Tardella (Università Sapienza di Roma)</i>
18:15	A data-driven approach to measuring epidemiological susceptibility risk around the world - Alessandro Bitetto (Università di Pavia)
18:20	The impact of PM2.5 on Covid-19 severity among Italian patients with multiple sclerosis - Marta Ponzano (Università di Genova)
18:25	Modelling the prevalence of COVID-19 in high incidence states in Nigeria using SIR and Logistic growth models - Oluwagbenga Babatunde (University of Nigeria, Nsukka)
18:30	“Who will watch the watchmen?” – Evaluation measures for quality indicators in primary care at the general practitioner level - Pietro Magnoni (Università di Milano)
18:35	Scalable PCA: Benchmarking principal component analysis for large-scale single-cell RNA-sequencing - Ilaria Billato (Università di Padova)

Sept 24	
14:00-15:00	Invited Session on Networking of Italian Region - IBS with Eastern Mediterranean EMR-IBS and Spanish-IBS regions <i>Chair: Paola Rebora (Università Milano-Bicocca)</i>
14:00	Have you been tested for COVID-19? Understand the role of biostatistics in the birth of an in-vitro diagnostic test - Susana Pérez-Álvarez (University of Catalunya)
14:20	Predicting illness trajectory and hospital utilization of COVID-19 hospitalized patients - a nationwide study in Israel - Malka Gorfine (Tel Aviv University)
14:40	Machine-learning model for the early prediction of in-hospital death of covid-19 patients - Marika Vezzoli (Università di Brescia)
15:00-15:15	<i>coffee break</i>
15:15-16:30	Contributed session dedicated to young researchers (age ≤ 35 years) <i>Chair: Francesco Stingo (Università di Firenze)</i>
15:15	Adverse events in survival data: from clinical questions to methods for statistical analysis - Elena Tassistro (Università Milano Bicocca)
15:30	Non-parametric “log-rank-type” tests to compare the hazard of mortality without or after transition to an intermediate event in a non-markovian illness-death model - Davide Bernasconi (Università di Milano-Bicocca)
15:45	Validation of a highly skewed continuous surrogate for a time to event endpoint - Giulia Capitoli (Università di Milano-Bicocca)
16:00	Bayesian Predictive Modeling for Personalized Treatment Selection - Matteo Pedone (Università degli Studi di Firenze)
16:15	Double cut-point identification of continuous diagnostic test variables for clinical use - Laura Cristoferi (Università di Milano-Bicocca)
16:30-16:40	<i>coffee break</i>
16:40-17:45	Invited Session entitled “ The analysis of omics data from a statistical perspective: novel methods, challenges, and applications ” organized by Claudia Angelini (Centro Nazionale Ricerche di Napoli) <i>Chair: Claudia Angelini (Centro Nazionale Ricerche di Napoli)</i>
16:40	Introduction to the session - Claudia Angelini (Centro Nazionale Ricerche di Napoli)
16:45	Learning gene association networks using single-cell RNA-seq data: an approach based on the zero-inflated negative binomial - Davide Riso (Università di Padova) on behalf of Bioinformatics Italian Society (BITS)
17:05	Penalized conditional logistic regression for data integration - Vera Djordjilovic (Università di Venezia)
17:25	Pencal: a method to predict survival from longitudinal and high-dimensional omic data - Mirko Signorelli (University of Leiden)
17:45-18:15	Keynote Speech “Two phase response-dependent sampling for studies of life history processes” – Richard J. Cook (University of Waterloo) <i>Chair: Maria Grazia Valsecchi (Università Milano-Bicocca)</i>

Sept 29

14:00-15:00	Invited Session entitled “ Multiple comparison issues in everyday practice ” organized by Alessio Farcomeni (Università Roma Tor Vergata) <i>Chair: Alessio Farcomeni (Università di Roma Tor Vergata)</i>
14:00	Comparing three groups - Jelle J. Goeman (University of Leiden)
14:20	Randomized and conditional p-values in replicability analysis - Thorsten Dickhaus (University of Bremen)
14:40	Flexible Inference in Multiverse Analysis - Livio Finos (Università di Padova)
15:00-15:15	<i>coffee break</i>
15:15-16:15	Contributed session dedicated to young researchers (age ≤ 35 years) <i>Chair: Stefano Calza (Università di Brescia)</i>
15:15	Permutation-based true discovery guarantee by sum tests - Anna Vesely (Università di Padova)
15:30	Efficient Procrustes-based functional alignment for high-dimensional data - Angela Andreella (Università di Padova)
15:45	A modified Bartlett correction for likelihood ratio tests in graphical models - Erika Banzato (Università di Padova)
16:00	Introducing nonlinear mixed-effects models in fluorescence recovery after photobleaching analyses - Gioia Di Credico (Università di Trieste)
16:15-16:30	<i>coffee break</i>
16:30-17:00	Keynote Speech "Pitfalls and benefits for using machine learning to detect and prognosticate for COVID-19: a reproducibility challenge" – Clelia di Serio (Università Vita-Salute San Raffaele Milano) <i>Chair: Paola Vicard (Università di Roma tre)</i>
17:00	General Assembly