



PROGRAMME GRASPA 2023

Palermo, July 10-11, 2023



Dipartimento di Scienze Economiche Aziendali e Statistiche, Università degli Studi di Palermo

Aula Magna 'Vincenzo Li Donni', viale delle Scienze ed. 13



ISTITUTO NAZIONALE
DI GEOFISICA E VULCANOLOGIA



Monday, July 10

8:30-9:15	Registration
9:15-9:45	Conference Opening and Welcome Address A. Mineo - <i>Head of the Dipartimento di Scienze Economiche, Aziendali e Statistiche</i> C. Crocetta - <i>President of SIS</i> F. Lagona - <i>President of GRASPA</i> G. Lovison - <i>GRASPA Founder Member</i>
9:45 -11:00	Session1: Complex data and models with environmental applications (R. Ignaccolo - L. Sangalli) <ul style="list-style-type: none"> - Statistical analysis of complex Networks <i>N. Pronello, Università di Chieti-Pescara</i> - O2S2 for uncertainty quantification in natural background level concentrations <i>A. Menafoglio, Politecnico di Milano</i> - Penalized multivariate hidden semi-Markov models for time series environmental data. <i>M. Mingione, Università di Roma Tre</i>
11:00-11:30	Coffee break
11:30 -12:15	Keynote lecture: Modeling Extremal Streamflow using Deep Learning Approximations and a Flexible Spatial Process (chair: A. Pollice) <i>Brian Reich, North Carolina State University, Raleigh</i>
12:15-13:30	Session2: Statistical Methods and Environmental Studies (M. Chiodi - V. Ferrantelli) <ul style="list-style-type: none"> - Analytical Methods of the Respiratory Epidemiological Surveys carried out by the National Research Council (CNR) <i>G. Viegi, Ift CNR</i> - Exploring the effects of temperature on demersal fish communities in the Central Mediterranean Sea using INLA-SPDE modeling approach <i>G. Milisenda, Stazione Zoologica Anton Dohrn</i> - ARPA Sicily: collection of environmental data, for an integrated vision of the regional territory and to support the "One Health" approach. <i>A. Conti, "Environment and Health" Unit - ARPA Sicilia</i>
13:30-15:00	Lunch Break
15:00-16:15	Session3 - Speedy Poster Presentations
16:15-16:45	Coffee Break
16:45-18:00	Session 4: Measuring and modelling of environmental processes (I. Prosdocimi - L. Sangalli) <ul style="list-style-type: none"> - A Bayesian Time Series Model for Reconstructing Hydroclimate from Multiple Proxies <i>N. Cahill, Maynooth University</i> - Some empirical results on nearest neighbour pseudo-populations for resampling from spatial populations <i>R. M. Di Biase, Università degli Studi di Siena</i> - Kriging Riemannian data for environmental applications <i>P. Secchi, Politecnico di Milano</i>
18:00-18:30	GRASPA General Assembly
20:30	Social Dinner: ex Monastero dei Teatini (Dipartimento di Giurisprudenza, via Maqueda 172)

Tuesday, July 11

9:30-10:45	<p>Session 5: Spatio-temporal modelling for urban problems (N. D'Angelo - M. Sciandra)</p> <ul style="list-style-type: none"> - ARPALData: an R package for retrieving and analyzing air quality and weather data from ARPA Lombardia (Italy) <i>P. Maranzano, Università degli Studi di Milano-Bicocca</i> - Stochastic reconstruction of a spatio-temporal Hawkes process with isotropic excitation: an application to road accidents <i>P. Alaimo Di Loro, Università di Roma LUMSA</i> - Mechanistic spatio-temporal modeling of infectious diseases and crime data on urban environments <i>J. Mateu, Universitat Jaume I, Castellon Spain</i>
10:45-12:15	<p>Session 6: Coffee Break and Poster exhibition</p>
12:15-13:00	<p>Keynote lecture: Estimating Covid-19 transmission time using Hawkes point processes (chair: J. Mateu)</p> <p><i>Rick Schoenberg - UCLA University, Los Angeles, California</i></p>
13:00-14:30	<p>Lunch Break</p>
14:30-15:45	<p>Session 7: Advances in statistical ecology (F. Lagona - A. Pollice)</p> <ul style="list-style-type: none"> - A species distribution modelling framework for combining citizen science data from different monitoring schemes. <i>J. Belmont Osuna, University of Glasgow</i> - Spatial occurrence models using Integrated Nested Laplace Approximation <i>S. Martino, Norwegian University of Science and Technology</i> - Data analysis of photogrammetry-based mapping: the sea cucumbers in the Giglio Island as a case study <i>G. Mastrantonio, Politecnico di Torino</i>
15:45-17:00	<p>Session 8: Controlling for unmeasured confounding: statistical issues and recent advances in air pollution and health studies (M. Ventrucchi - L. Ippoliti - L. Ventura)</p> <ul style="list-style-type: none"> - Confounder-Dependent Bayesian Mixture Model: Characterizing Heterogeneity of Causal Effects in Air Pollution Epidemiology <i>D. Zorzetto, Università di Padova</i> - On the effect of spatial confounding: an approach based on the theory of quadratic forms. <i>M. Narcisi, Università di Bologna</i> - A Flexible Bayesian Time-varying Coefficient Regression Model in Health Applications <i>C. Zaccardi, Università degli Studi 'Gabriele d'Annunzio' di Chieti</i>
17:00-18:00	<p>Coffee break and Best Poster Award</p>