

**TIES-GRASPA 2017 CONFERENCE**  
**LIST OF INVITED TALKS, ordered by session tag** (version: 13/07/2017)

Session title	Session Tag	Role	Full string
Studies on Air Pollution in China	AIR2	Chair	Chair: Ying Sun
	AIR2	Organizer	Organizer: Song Xi Chen
	AIR2	Speaker 1	Measuring the air pollution severity In North China Plain --- BIN GUO Southwestern University of Finance and Economics, China
	AIR2	Speaker 2	Explore the relations of pollutant concentrations with meteorological and locational variables --- HUI HUANG Peking University, China
	AIR2	Speaker 3	Regionalization of Multi-scaled Air Pollutants Based on Functional Principal Component Analysis --- MINYA XU Peking University, China
	AIR2	Speaker 4	Cautionary Tales on Air Quality Improvement in Beijing --- SONG XI CHEN Iowa State University
Spatial statistics in climate and environmental studies	CLIM1	Chair	Chair: Carlo Gaetan
	CLIM1	Organizer	Organizer: Francesco Lagona and Carlo Gaetan
	CLIM1	Speaker 1	Modeling Uncertainty for Wind Energy Resources in Saudi Arabia --- STEFANO CASTRUCCIO Newcastle University, UK
	CLIM1	Speaker 2	Brute force or hand-waiving: spatial interpolation approaches at your service --- REINHARD FURRER University of Zurich, Switzerland
	CLIM1	Speaker 3	A latent Gaussian approach for modeling geological sequences: model, inference and conditional simulation --- DENIS ALLARD INRA, France

Session title	Session Tag	Role	Full string
Stochastic weather generators and stochastic downscaling of climate variables	CLIM2	Chair	Chair: Denis Allard
Stochastic weather generators and stochastic downscaling of climate variables	CLIM2	Organizer	Organizer: Denis Allard
Stochastic weather generators and stochastic downscaling of climate variables	CLIM2	Speaker 1	Weather generators by means of truncated and transformed Gaussian random fields --- ANASTASIA BAXEVANI University of Cyprus, Cyprus
Stochastic weather generators and stochastic downscaling of climate variables	CLIM2	Speaker 2	Stochastic rainfall generation from a censored latent Gaussian field: micro-scale parametrization --- LIONEL BENOIT University of Lausanne, Switzerland
Stochastic weather generators and stochastic downscaling of climate variables	CLIM2	Speaker 3	Spatial hybrid downscaling of extreme precipitation fields --- MATHIEU VRAC CNRS Gif-sur-Yvette, France
Advances in weather forecasting	CLIM4	Chair	Chair: Orietta Nicolis
Advances in weather forecasting	CLIM4	Organizer	Organizer: Orietta Nicolis
Advances in weather forecasting	CLIM4	Speaker 1	Improve numerical weather forecasts over astronomical sites in Chile using a Kalman filter --- OMAR CUEVAS University of Valparaiso, Chile
Advances in weather forecasting	CLIM4	Speaker 2	Statistical post-processing of ensemble forecasts for precipitation accumulation --- SÁNDOR BARAN University of Debrecen, Hungary
Advances in weather forecasting	CLIM4	Speaker 3	Spatio-temporal modeling for predicting wind speed and direction on the coast of Valparaiso --- MAILIU DÍAZ University of Valparaiso, Chile

Session title	Session Tag	Role	Full string
Spatio-temporal analysis of ground-based and satellite observations - I	CLIM5	Chair	Chair: Fabio Madonna
Spatio-temporal analysis of ground-based and satellite observations - I	CLIM5	Organizer	Organizer: Fabio Madonna
Spatio-temporal analysis of ground-based and satellite observations - I	CLIM5	Speaker 1	Quantifying uncertainties in the monthly mean zonal mean, and in vertical profiles, of sparsely sampled atmospheric variables --- BIRGIT HASSLER Bodeker Scientific, New Zealand
Spatio-temporal analysis of ground-based and satellite observations - I	CLIM5	Speaker 2	Planning environmental observing systems of the future: the role of statistics --- ELIZABETH WEATHERHEAD NOAA, US
Spatio-temporal analysis of ground-based and satellite observations - I	CLIM5	Speaker 3	Uncertainty assessment of co-located radiosonde and remote sensing profiles by harmonization --- FRANCESCO FINAZZI University of Bergamo, Italy
Spatio-temporal analysis of ground-based and satellite observations - II	CLIM6	Chair	Chair: Francesco Finazzi
Spatio-temporal analysis of ground-based and satellite observations - II	CLIM6	Organizer	Organizer: Fabio Madonna
Spatio-temporal analysis of ground-based and satellite observations - II	CLIM6	Speaker 1	A numerical and experimental investigation of uncertainties in air temperature measurements, in the framework of MeteoMet project --- GRAZIANO COPPA INRIM, Italy
Spatio-temporal analysis of ground-based and satellite observations - II	CLIM6	Speaker 2	Homogenizing radiosonde temperature and humidity profile in the BARON for C3S Service --- FABIO MADONNA CNR-IMAA, Italy
Spatio-temporal analysis of ground-based and satellite observations - II	CLIM6	Speaker 3	Spatio-temporal mismatch for Aerosol profiles --- ILIA NEGRI University of Bergamo, Italy

Session title	Session Tag	Role	Full string
Precipitation microphysical retrievals and analysis using weather radar observations	CLIM8	Chair	Chair: Fabio Madonna
Precipitation microphysical retrievals and analysis using weather radar observations	CLIM8	Organizer	Organizer: Stefania Ghigo and Michela Cameletti
Precipitation microphysical retrievals and analysis using weather radar observations	CLIM8	Speaker 1	On modelling rain drop size distributions for hydrological applications and remote sensing --- LUCA BALDINI ISAC-CNR, Italy
Precipitation microphysical retrievals and analysis using weather radar observations	CLIM8	Speaker 2	Classification techniques for the retrieval of microphysical information from dual-polarization weather radars --- RENZO BECHINI Arpa Piemonte, Italy
Precipitation microphysical retrievals and analysis using weather radar observations	CLIM8	Speaker 3	Verification of Severe Thunderstorms Forecast in Lombardia --- STEFANO BARBERIS Arpa Lombardia, Italy
Precipitation microphysical retrievals and analysis using weather radar observations	CLIM8	Speaker 4	Irradiance Levels and Hourly Temperature: Evidence from the Arctic --- KEVIN FORBES The Catholic University of America, US
ISBA-EnviBayes: Computational statistics for large spatial data	COMP1	Chair	Chair: Giovanna Jona Lasinio
ISBA-EnviBayes: Computational statistics for large spatial data	COMP1	Organizer	Organizer: Montse Fuentes
ISBA-EnviBayes: Computational statistics for large spatial data	COMP1	Speaker 1	Comparison between spatio-temporal random processes and application to climate model data --- BO LI University of Illinois at Urbana-Champaign, US
ISBA-EnviBayes: Computational statistics for large spatial data	COMP1	Speaker 2	Statistics-Based Compression of Global Wind Fields --- MARC GENTON KAUST, Saudi Arabia
ISBA-EnviBayes: Computational statistics for large spatial data	COMP1	Speaker 3	Patterns, missingness and structure in spatio-temporal data --- MARIAN SCOTT University of Glasgow, UK

Session title	Session Tag	Role	Full string
Some new developments in the R-INLA project	COMP2	Chair	Chair: Virgilio Gomez-Rubio
	COMP2	Organizer	Organizer: Michela Cameletti and Marta Blangiardo
	COMP2	Speaker 1	Some new developments in the R-INLA project --- HAAVARD RUE KAUST, Saudi Arabia
	COMP2	Speaker 2	Inlabru: Bayesian modeling and point process analysis --- FABIAN BACHL University of Edinburgh, UK
	COMP2	Speaker 3	Multivariate Conditional Autoregressive models within R-INLA --- ANNA FRENI STERRANTINO Imperial College London, UK
Interaction between population and environment	DEMO2	Chair	Chair: Daniela Cocchi
	DEMO2	Organizer	Organizer: Daniela Cocchi
	DEMO2	Speaker 1	Modelling and decomposing vital rates: a non-parametric approach --- CARLO GIOVANNI CAMARDA French Institute for Demographic Studies, France
	DEMO2	Speaker 2	International migration and family environment: evidence from Ireland --- IRENE MOSCA Trinity college, UK
	DEMO2	Speaker 3	Applying demographic methods and concepts to the study of vulnerability to global environmental change --- RAYA MUTTARAK International Institute for Applied Systems Analysis, Austria
	DEMO2	Speaker 4	Climate change and population movement in Tanzania --- ALESSANDRA PETRUCCI University of Florence, Italy

Session title	Session Tag	Role	Full string
Demographic behaviors and environmental aspects	<b>DEMO3</b>	Chair	Chair: Alessandra Petrucci
Demographic behaviors and environmental aspects	<b>DEMO3</b>	Organizer	Organizer: Daniele Vignoli and Filomena Racioppi
Demographic behaviors and environmental aspects	<b>DEMO3</b>	Speaker 1	Air pollution and reproductive behavior in Rome --- GIULIA CESARONI National Health Institute, Italy
Demographic behaviors and environmental aspects	<b>DEMO3</b>	Speaker 2	Earthquakes and human displacement in Italy. A comparison between L'Aquila and the Emilia Romagna's cases --- ELENA AMBROSETTI Sapienza University of Rome, Italy
Demographic behaviors and environmental aspects	<b>DEMO3</b>	Speaker 3	Material deprivation and social segregation in the census cohort studies --- LAURA GRISOTTO University of Florence, Italy
Environmental directional statistics	<b>DIR1</b>	Chair	Chair: Francesco Lagona
Environmental directional statistics	<b>DIR1</b>	Organizer	Organizer: Francesco Lagona
Environmental directional statistics	<b>DIR1</b>	Speaker 1	Nonparametric discrimination for directional data --- MARCO DI MARZIO University of Chieti-Pescara, Italy
Environmental directional statistics	<b>DIR1</b>	Speaker 2	A flexible Bayesian model for clustering seasonal time series with linear and circular components --- GIANLUCA MASTRANTONIO Polytechnic University of Turin, Italy
Environmental directional statistics	<b>DIR1</b>	Speaker 3	A directional look on fires --- ROSA M. CRUJEIRAS University of Santiago de Compostela, Spain

Session title	Session Tag	Role	Full string
Compositional Data Analysis	DIR2	Chair	Chair: Alessandra Menafoglio
Compositional Data Analysis	DIR2	Organizer	Organizer: Alessandra Menafoglio
Compositional Data Analysis	DIR2	Speaker 1	Interpretation of compositional data analysis of geochemical data with case studies from environmental management and the identification of potential human health impacts --- JENNIFER MARY MCKINLEY Queen's University Belfast, UK
Compositional Data Analysis	DIR2	Speaker 2	Regression between parts of compositional data using symmetric balances --- KAREL HRON Palacký University, Czech Republic
Compositional Data Analysis	DIR2	Speaker 3	Pairwise association between parts of a composition --- PETER FILZMOSE Vienna University of Technology, Austria
Compositional Data Analysis	DIR2	Speaker 4	Mapping groundwater arsenic concentrations in Varanasi, Uttar Pradesh, India --- VERA PAWLOWSKY-GLAHN University of Girona, Spain
Spatial data analysis on spheres and other bidimensional manifolds	DIR3	Chair	Chair: Laura Sangalli
Spatial data analysis on spheres and other bidimensional manifolds	DIR3	Organizer	Organizer: Laura Sangalli
Spatial data analysis on spheres and other bidimensional manifolds	DIR3	Speaker 1	Coverage uncertainties in global temperature fields --- MARYAM ILYAS University College London, UK
Spatial data analysis on spheres and other bidimensional manifolds	DIR3	Speaker 2	An Evolutionary Spectrum Approach to Model Land/Ocean Nonstationarities --- STEFANO CASTRUCCIO Newcastle University, UK
Spatial data analysis on spheres and other bidimensional manifolds	DIR3	Speaker 3	Multivariate point process models for multiple rain type occurrences --- MIKYOUNG JUN Texas A&M University, US

Session title	Session Tag	Role	Full string
Hidden Markov models in climate and environment	DIR4	Chair	Chair: Peter Filzmoser
Hidden Markov models in climate and environment	DIR4	Organizer	Organizer: Francesco Lagona
Hidden Markov models in climate and environment	DIR4	Speaker 1	Dynamic mixtures of copulas for cylindrical time series --- FRANCESCO LAGONA University of Roma Tre, Italy
Hidden Markov models in climate and environment	DIR4	Speaker 2	Robust model-based clustering for longitudinal circular data --- ANTONELLO MARUOTTI LUMSA, Italy
Hidden Markov models in climate and environment	DIR4	Speaker 3	An anisotropic and inhomogeneous hidden Markov model for the classification of water quality spatio-temporal series --- LUIGI SPEZIA BioSS, UK
Advances in Ecological Modelling	ECO1	Chair	Chair: Alessio Pollice
Advances in Ecological Modelling	ECO1	Organizer	Organizer: Grace Chiu and Hideyasu Shimadzu
Advances in Ecological Modelling	ECO1	Speaker 1	Rarefaction techniques and species richness in biodiversity studies --- HIDEYASU SHIMADZU Loughborough University, UK
Advances in Ecological Modelling	ECO1	Speaker 2	Grouping in the presence of Artefacts: model-based approaches to avoid systematic noise --- SCOTT DAVID FOSTER CSIRO, Australia
Advances in Ecological Modelling	ECO1	Speaker 3	Shape modelling and clustering of marine mammal dive profiles --- ERIC FU University of British Columbia, Canada



Session title	Session Tag	Role	Full string
Bayesian ecological modelling and biodiversity assessment	ECO2	Chair	Chair: Kristian Meissner
	ECO2	Organizer	Organizer: Alessio Pollice
	ECO2	Speaker 1	Identifying the best fishing-suitable areas using Bayesian spatio-temporal models --- DAVID CONESA University of Valencia, Spain
	ECO2	Speaker 2	Modelling fish fauna assemblages to detect factors affecting differences between coral and non coral habitats --- CRESCENZA CALCULLI University of Foggia, Italy
	ECO2	Speaker 3	Assessing the role of the spatial scale in the analysis of lagoon biodiversity. A case-study on the macrobenthic fauna of the Po River Delta --- GIOVANNA JONA LASINIO Sapienza University of Rome, Italy
Understanding processes in ecology and environmental epidemiology	ECO3	Chair	Chair: Ying MacNab
	ECO3	Organizer	Organizer: Ayesha Ali
	ECO3	Speaker 1	Regularization for grouped Dirichlet-multinomial regression in the analysis of ecological networks --- CATHY CREA University of Guelph, Canada
	ECO3	Speaker 2	Environment and Causal Inference --- JAMES ROBINS Harvard School of Public Health, US
	ECO3	Speaker 3	Multivariate space-time modelling of multiple air pollutants and their health effects accounting for exposure uncertainty --- GUOWEN HUANG National Tsing Hua University, Taiwan

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Citizen science in ecology	<b>ECO4</b>	Chair	Chair: Pascal Monestiez
Citizen science in ecology	<b>ECO4</b>	Organizer	Organizer: Pascal Monestiez
Citizen science in ecology	<b>ECO4</b>	Speaker 1	Estimating dispersal kernels using citizen science data: the Montagu's harrier example --- JOEL CHADOEUF INRA, France
Citizen science in ecology	<b>ECO4</b>	Speaker 2	Plant species distribution modeling for opportunistic occurrences, a case study on PI@ntNet data --- CHRISTOPHE BOTELLA CIRAD, France
Citizen science in ecology	<b>ECO4</b>	Speaker 3	Modelling biodiversity change from messy and biased data --- NICK ISAAC CEH, UK
Sampling strategies for assessing climate change effects	<b>ENV1</b>	Chair	Chair: Marzia Marcheselli
Sampling strategies for assessing climate change effects	<b>ENV1</b>	Organizer	Organizer: Marzia Marcheselli
Sampling strategies for assessing climate change effects	<b>ENV1</b>	Speaker 1	Spatially balanced sampling on several occasions for population monitoring --- ROBERTO BENEDETTI University of Chieti-Pescara, Italy
Sampling strategies for assessing climate change effects	<b>ENV1</b>	Speaker 2	Inference on forest attributes and ecological diversity of trees-outside-forests based on two-phase inventories --- CATERINA PISANI University of Siena, Italy
Sampling strategies for assessing climate change effects	<b>ENV1</b>	Speaker 3	Wildfire occurrence in Italy: exploring the role of socio-economic, urban development and environmental factors --- LUCA SECONDI University of Tuscia, Italy

Session title	Session Tag	Role	Full string
Understanding our environment	ENV2	Chair	Chair: Marian Scott
Understanding our environment	ENV2	Organizer	Organizer: Marian Scott
Understanding our environment	ENV2	Speaker 1	Efficiently modelling telemetry data --- ESTHER LANE JONES University of St. Andrews, UK
Understanding our environment	ENV2	Speaker 2	Using extreme value statistics to forecast groundwater floods and droughts --- BEN MARCHANT British Geological Survey, UK
Understanding our environment	ENV2	Speaker 3	Impact of logging on the resilience of SE Asian forests: remote sensing two decades of forest change --- MARK CUTLER University of Dundee, UK
Modelling Environmental Variation I	ENV3	Chair	Chair: Armand Maul
Modelling Environmental Variation I	ENV3	Organizer	Organizer: Abdel El-Shaarawi
Modelling Environmental Variation I	ENV3	Speaker 1	Regional trends in fire danger based on historical records --- SYLVIA R. ESTERBY University of British Columbia, Canada
Modelling Environmental Variation I	ENV3	Speaker 2	Multivariate state-space models for skewed environmental data --- RENJUN MA University of New Brunswick, Canada
Modelling Environmental Variation I	ENV3	Speaker 3	Count data dynamic forecasting models with environmental applications --- ALI S. GARGOUM United Arab Emirates University, United Arab Emirates
Statistics and Data Mining for Sustainable Energy Modeling and Prediction	ENV4	Chair	Chair: Abdel El-Shaarawi
Statistics and Data Mining for Sustainable Energy Modeling and Prediction	ENV4	Organizer	Organizer: Yulia Gel
Statistics and Data Mining for Sustainable Energy Modeling and Prediction	ENV4	Speaker 1	Assessment of solar radiation components in Brazil using the BRL Diffuse Radiation model --- JOHN BOLAND University of Southern Australia, Australia
Statistics and Data Mining for Sustainable Energy Modeling and Prediction	ENV4	Speaker 2	A dispatched-by-design architecture for distribution systems based on exploiting local flexibility --- ENRICA SCOLARI EPFL, Switzerland

Session title	Session Tag	Role	Full string
Environmental processes and human activities: capturing their interactions via statistical methods (EPHASTAT)	ENV5	Chair	Chair: Daniela Cocchi
	ENV5	Organizer	Organizer: Daniela Cocchi (PI of the PRIN 2015 EPHASTAT project)
	ENV5	Speaker 1	Going around the barriers - simple models for complex ecological behaviour --- HAAKON CHRISTOPHER BAKKA NTNU, Norway
	ENV5	Speaker 2	Monitoring Sendai Framework for Disaster Risk reduction and SDGs: indicators to analyse interactions among Human and Natural Systems --- ANGELA FERRUZZA ISTAT, Italy
	ENV5	Speaker 3	Biodiversity, ecological status assessment and management of rivers and lakes: new solutions to old issues? --- KRISTIAN MEISSNER Finnish Environment Institute, Finland
	ENV5	Speaker 4	Analysis of Extremes in Climate Model Predictions: Assessment and Comparisons --- BRUNO SANSÒ University of California, US
Modelling Environmental Variation II	ENV6	Chair	Chair: Sylvia R. Esterby
	ENV6	Organizer	Organizer: Abdel El-Shaarawi
	ENV6	Speaker 1	The challenge of global water supply with time-series treatment forecasting --- JAVIER SANTACRUZ CANO Complutense University of Madrid, Spain
	ENV6	Speaker 2	Spatio-temporal clustering of water quality trends --- VYACHESLAV LYUBCHICH University of Maryland, US
	ENV6	Speaker 3	Spatiotemporal interpolation of Rainfall variability in Blue Nile Basin for the period 1998–2016 --- YASMINE M. ABDELFATTAH The British University in Egypt, Egypt

Session title	Session Tag	Role	Full string
Modelling Environmental Variation III	ENV7	Chair	Chair: Abdel El-Shaarawi
Modelling Environmental Variation III	ENV7	Organizer	Organizer: Abdel El-Shaarawi
Modelling Environmental Variation III	ENV7	Speaker 1	Climate Adaptation and Risk Management in Insurance --- YULIA R. GEL University of Texas at Dallas, US
Modelling Environmental Variation III	ENV7	Speaker 2	Methods for Zero-inflated and autocorrelated counts with application to health care performance analysis --- ABDULKADIR HUSSEIN University of Windsor Windsor, ON Canada
Modelling Environmental Variation III	ENV7	Speaker 3	Bayesian estimation of global glacial isostatic adjustment for sea level rise re-evaluation --- ZHE SHA University of Bristol, UK
Spatial modeling for epidemiological data	EPI1	Chair	Chair: Massimo Ventrucchi
Spatial modeling for epidemiological data	EPI1	Organizer	Organizer: Maria Franco Villoria and Massimo Ventrucchi
Spatial modeling for epidemiological data	EPI1	Speaker 1	Characterization of spatial and temporal variability of exposure to air pollution in epidemiological studies --- ANDREA RANZI Arpa Emilia Romagna, Italy
Spatial modeling for epidemiological data	EPI1	Speaker 2	Modelling latent trends from spatio-temporally grouped data using composite link mixed models --- DAE-JIN LEE Basque Center for Applied Mathematics, Spain
Spatial modeling for epidemiological data	EPI1	Speaker 3	A Bayesian S-FVAR model to estimate the short-term effects of air pollution on human health --- PASQUALE VALENTINI University of Chieti-Pescara, Italy

Session title	Session Tag	Role	Full string
Spatio-temporal disease mapping: models and applications	EPI2	Chair	Chair: Lola Ugarte
Spatio-temporal disease mapping: models and applications	EPI2	Organizer	Organizer: Lola Ugarte
Spatio-temporal disease mapping: models and applications	EPI2	Speaker 1	On nonseparable spatiotemporal covariance models, with applications to Bayesian disease mapping --- YING C. MACNAB University of British Columbia, Canada
Spatio-temporal disease mapping: models and applications	EPI2	Speaker 2	Misspecified identifiability constraints produce wrong PQL and INLA fits of spatio-temporal disease mapping models --- TOMÁS GOICOA Public University of Navarre, Spain
Spatio-temporal disease mapping: models and applications	EPI2	Speaker 3	Two Level Modeling of Relative Risk of Dengue Disease at Small Spatial Scale in Colombia --- DANIEL MARTINEZ-BELLO University of Valencia, Spain
Cancer mapping	EPI3	Chair	Chair: Paolo Girardi
Cancer mapping	EPI3	Organizer	Organizer: Behzad Mahaki
Cancer mapping	EPI3	Speaker 1	Spatio-Temporal Multivariate Shared Component Modeling for Cancer Data --- VOLKER SCHMID Ludwig Maximilian University, Germany
Cancer mapping	EPI3	Speaker 2	Mapping of stomach, colorectal and bladder cancers in Iran, 2004-2009: Applying Bayesian Polytomous Logit model --- MARZIEH NASRAZADANI Isfahan University of Medical Sciences, Iran
Modelling environmental and health data	EPI4	Chair	Chair: Marta Blangiardo
Modelling environmental and health data	EPI4	Organizer	Organizer: Marta Blangiardo
Modelling environmental and health data	EPI4	Speaker 1	A spatio-temporal process-convolution model for quantifying the effects of air pollution on respiratory prescription rates in Scotland --- DUNCAN LEE University of Glasgow, UK
Modelling environmental and health data	EPI4	Speaker 2	A segmentation-based approach for non-stationary spatial modeling of environmental data --- VERONICA BERROCAL University of Michigan, US
Modelling environmental and health data	EPI4	Speaker 3	Modeling multivariate complex spatial data with INLA --- VIRGILIO GOMEZ-RUBIO University of Castilla-La Mancha, Spain

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Spatio-temporal modeling of disease risk to quantify the changing nature of health inequalities	EPI5	Chair	Chair: Duncan Lee
Spatio-temporal modeling of disease risk to quantify the changing nature of health inequalities		Organizer	Organizer: Duncan Lee
Spatio-temporal modeling of disease risk to quantify the changing nature of health inequalities		Speaker 1	A General Methodological Framework for Identifying Disease Risk Spatial Clusters Based Upon Mixtures of Temporal Trends --- GARY NAPIER University of Glasgow, UK
Spatio-temporal modeling of disease risk to quantify the changing nature of health inequalities		Speaker 2	Risk estimates in disease mapping when discontinuities are present --- ARITZ ADIN Public University of Navarra, Spain
Spatio-temporal modeling of disease risk to quantify the changing nature of health inequalities		Speaker 3	Spatio-temporal Bayesian Kriging Models to Predict Residential Air Pollutants Exposure --- ANNIBALE BIGGERI University of Florence, Italy
Functional geostatistics	FUN1	Chair	Chair: Maria Franco Villoria
Functional geostatistics		Organizer	Organizer: Elvira Romano
Functional geostatistics		Speaker 1	Functional approaches for sparse spatiotemporal satellite data --- CLAIR MILLER University of Glasgow, UK
Functional geostatistics		Speaker 2	Spatial clustering of LISA functions: a functional approach --- FRANCISCO J RODRÍGUEZ-CORTÉS Jaume I University, Spain
Functional geostatistics		Speaker 3	The axiomatic definition of statistical depth --- ALICIA NIETO-REYES University of Cantabria, Spain

Session title	Session Tag	Role	Full string
Spatial analysis of Complex and Object data II	<b>FUN2</b>	Chair	Chair: Shahin Tavakoli
Spatial analysis of Complex and Object data II	<b>FUN2</b>	Organizer	Organizer: Piercesare Secchi and Laura Sangalli
Spatial analysis of Complex and Object data II	<b>FUN2</b>	Speaker 1	Multi-resolution clustering for dependent functional data with applications to climate reconstruction --- SARA SJOSTEDT DE LUNA Umea University, Sweden
Spatial analysis of Complex and Object data II	<b>FUN2</b>	Speaker 2	A simple spatio-temporal model with principle splines --- LUIGI IPPOLITI University of Chieti-Pescara, Italy
Spatial analysis of Complex and Object data II	<b>FUN2</b>	Speaker 3	Data Fusion for functional data --- ROSALBA IGNACCOLO University of Torino, Italy
Spatial data analysis and partial differential equations	<b>FUN3</b>	Chair	Chair: Laura Sangalli
Spatial data analysis and partial differential equations	<b>FUN3</b>	Organizer	Organizer: Laura Sangalli
Spatial data analysis and partial differential equations	<b>FUN3</b>	Speaker 1	Convergence Analysis of Penalized Least Squares Data Fitting Splines --- MING-JUN LAI University of Georgia, US
Spatial data analysis and partial differential equations	<b>FUN3</b>	Speaker 2	Simultaneous modelling and estimation of climate and weather --- FINN LINDGREN University of Edinburgh, UK



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Functional Data Analysis for Space-time Sensor data	<b>FUN4</b>	Chair	Chair: Clair Miller
Functional Data Analysis for Space-time Sensor data	<b>FUN4</b>	Organizer	Organizer: Claire Miller and Surajit Ray
Functional Data Analysis for Space-time Sensor data	<b>FUN4</b>	Speaker 1	Testing stationarity of functional time series --- AMIRA ELAYOUTY Cairo University, Egypt and University of Glasgow, UK
Functional Data Analysis for Space-time Sensor data	<b>FUN4</b>	Speaker 2	Assessing coherence of global lake water quality using functional data analysis --- RUTH O'DONNELL University of Glasgow, UK
Functional Data Analysis for Space-time Sensor data	<b>FUN4</b>	Speaker 3	Modeling spatially dependent functional data by regression with differential regularization --- LAURA SANGALLI Politecnico di Milano, Italy
Spatial analysis of Complex and Object data I	<b>FUN5</b>	Chair	Chair: Rosalba Ignaccolo
Spatial analysis of Complex and Object data I	<b>FUN5</b>	Organizer	Organizer: Piercesare Secchi and Laura Sangalli
Spatial analysis of Complex and Object data I	<b>FUN5</b>	Speaker 1	Covariance models for large spatial datasets and their inference --- THOMAS ROMARY MINES ParisTech, France
Spatial analysis of Complex and Object data I	<b>FUN5</b>	Speaker 2	Inferring Accents from Geo-localized Acoustic Speech Recordings I --- DAVIDE PIGOLI Cambridge University, UK
Spatial analysis of Complex and Object data I	<b>FUN5</b>	Speaker 3	Inferring Accents from Geo-localized Acoustic Speech Recordings II --- SHAHIN TAVAKOLI Cambridge University, UK
Spatial analysis of Complex and Object data I	<b>FUN5</b>	Speaker 4	Kriging for non-stationary object data through Random Domain Decomposition --- ALESSANDRA MENAFOGLIO Politecnico di Milano, Italy

Session title	Session Tag	Role	Full string
Space-time and functional approaches for partially observed data	FUN6	Chair	Chair: Claire Miller
	FUN6	Organizer	Organizer: Laura Sangalli and Claire Miller
	FUN6	Speaker 1	An integrated framework for analyzing spatially correlated functional data --- SURAJIT RAY University of Glasgow, UK
	FUN6	Speaker 2	Prediction of Spatio-Temporal Data: A Comparative Study of Two Kriging Approaches --- JOHAN STRANDBERG Umea University, Sweden
	FUN6	Speaker 3	Missing data in space-time: long gaps imputation based on functional data analysis --- FRANCESCA DI SALVO University of Palermo, Italy
Smart Statistics: cities, mobility, and society	FUN8	Chair	Chair: Simone Vantini
	FUN8	Organizer	Organizer: Simone Vantini
	FUN8	Speaker 1	Urban change and BIGDATA analysis: methodological challenges to urban theory --- VALERIA FEDELI Politecnico di Milano, Italy
	FUN8	Speaker 2	E-mobility infrastructure for supporting private mobility in Italy --- MARIKA ARENA Politecnico di Milano, Italy
	FUN8	Speaker 3	Urbanscope: functional biclustering of Milan mobility patterns --- JACOPO DI IORIO Politecnico di Milano, Italy
	FUN8	Speaker 4	Functional Data Analysis for Energy and Behavioural analytics --- MATTEO FONTANA Politecnico di Milano, Italy

Session title	Session Tag	Role	Full string
Inference on Gauss Markov Random Fields	INF1	Chair	Chair: Sudipto Banerjee
Inference on Gauss Markov Random Fields	INF1	Organizer	Organizer: Luigi Ippoliti
Inference on Gauss Markov Random Fields	INF1	Speaker 1	A characterization of the valid parameter space of large multivariate GMRFs --- MATTIA MOLINARO University of Zurich, Switzerland
Inference on Gauss Markov Random Fields	INF1	Speaker 2	Recursive Structure of Multivariate Gauss-Markov Random Fields --- LUCA ROMAGNOLI University of Molise, Italy
Inference on Gauss Markov Random Fields	INF1	Speaker 3	Prior specification in random effect models --- FEDELE GRECO University of Bologna, Italy
Entropy measures and their applications	INF2	Chair	Chair: David Conesa
Entropy measures and their applications	INF2	Organizer	Organizer: Giovanna Jona Lasinio and Alessio Pollice
Entropy measures and their applications	INF2	Speaker 1	Quantifying random uncertainty and redundancy in water vapour time series using entropy theory --- MARCO ROSOLDI CNR-IMAA, Italy
Entropy measures and their applications	INF2	Speaker 2	The use of spatial information in entropy measures --- LINDA ALTIERI University of Bologna, Italy
Entropy measures and their applications	INF2	Speaker 3	Global Measures of Entropy and Similarity for Genetic Sequences Data --- FABIO DIVINO University of Molise, Italy

Session title	Session Tag	Role	Full string
Inference and modelling of complex systems	INF3	Chair	Chair: Birgit Hassler
Inference and modelling of complex systems	INF3	Organizer	Organizer: Leticia Ramirez-Ramirez
Inference and modelling of complex systems	INF3	Speaker 1	On-line adaptation of agent-based disease simulation --- HEIKKI HAARIO Lappeeranta University of Technology, Finland
Inference and modelling of complex systems	INF3	Speaker 2	From in-situ to continuous modelling of mosquito biting rates --- ANNA SHCHERBACHEVA Lappeeranta University of Technology, Finland
Inference and modelling of complex systems	INF3	Speaker 3	Low-memory filtering for high-dimensional satellite data time series --- ALEKSANDR BIBOV Lappeeranta University of Technology, Finland
Inference and modelling of complex systems	INF3	Speaker 4	Forecasting of cases for climate sensitive mosquito-borne diseases using traditional and online-media information --- LETICIA RAMIREZ-RAMIREZ CIMAT, Mexico
Spatio-temporal modelling for environment	ST1	Chair	Chair: Liliane Bel
Spatio-temporal modelling for environment	ST1	Organizer	Organizer: Liliane Bel
Spatio-temporal modelling for environment	ST1	Speaker 1	Spatio-temporal kriging for air quality forecasting --- LAURE MALHERBE INERIS, France
Spatio-temporal modelling for environment	ST1	Speaker 2	Conditional simulation of Gaussian spatio-temporal random field with specified covariance, based on the SPDE approach. --- NICOLAS DESASSIS Mines Paris Tech, France
Spatio-temporal modelling for environment	ST1	Speaker 3	Object-based classification of grassland management practices from high resolution satellite image time series with Gaussian mean map kernels --- STEPHANE GIRARD INRIA, France

Session title	Session Tag	Role	Full string
Recent Advances in Spatial and Spatio-Temporal Models	ST2	Chair	Chair: Wen-Han Hwang
Recent Advances in Spatial and Spatio-Temporal Models	ST2	Organizer	Organizer: Hsin-Cheng Huang
Recent Advances in Spatial and Spatio-Temporal Models	ST2	Speaker 1	Spatio-temporal models with space-time interaction and their applications to air pollution data --- RUEY TSAY University of Chicago, US
Recent Advances in Spatial and Spatio-Temporal Models	ST2	Speaker 2	Spatial pattern clustering for PM2.5 with application to anomaly detection --- NAN-JUNG HSU National Tsing Hua University, Taiwan
Recent Advances in Spatial and Spatio-Temporal Models	ST2	Speaker 3	Integration of different sources of environmental data in space and time --- JUN ZHU University of Wisconsin-Madison, US
Recent Advances in Spatial and Spatio-Temporal Models	ST2	Speaker 4	Matern Space-Time Correlation Functions --- TONGLIN ZHANG Purdue University, US
Spatial Methods in Geostatistics and Ecological Statistics	ST3	Chair	Chair: Jun Zhu
Spatial Methods in Geostatistics and Ecological Statistics	ST3	Organizer	Organizer: Hsin-Cheng Huang
Spatial Methods in Geostatistics and Ecological Statistics	ST3	Speaker 1	Estimation of abundance from occurrence maps --- WEN-HAN HWANG National Chung Hsing University, Taiwan
Spatial Methods in Geostatistics and Ecological Statistics	ST3	Speaker 2	Local variable selection under a misspecified spatial regression model --- CHUN-SHU CHEN National Changhua University of Education, Taiwan
Spatial Methods in Geostatistics and Ecological Statistics	ST3	Speaker 3	On spline-based approach to spatial linear regression for geostatistical data --- GUILHERME LUDWIG University of Campinas, Brazil
Spatial Methods in Geostatistics and Ecological Statistics	ST3	Speaker 4	Spatial Prediction of Fine Particulate Matter in Taiwan --- HSIN-CHENG HUANG Institute of Statistical Science Academia Sinica, Taiwan

Session title	Session Tag	Role	Full string
Complex space-time modeling and functional analysis for probabilistic forecast of seismic events	ST4	Chair	Chair: Renata Rotondi
Complex space-time modeling and functional analysis for probabilistic forecast of seismic events	ST4	Organizer	Organizer: Renata Rotondi and Giada Adelfio
Complex space-time modeling and functional analysis for probabilistic forecast of seismic events	ST4	Speaker 1	Spatio-temporal log-Gaussian Cox processes on earthquake events --- GIADA ADELFIGIO University of Palermo, Italy
Complex space-time modeling and functional analysis for probabilistic forecast of seismic events	ST4	Speaker 2	Two-factor experiment analysis for the replicated marked point patterns --- JORGE MATEU Jaume I University, Spain
Complex space-time modeling and functional analysis for probabilistic forecast of seismic events	ST4	Speaker 3	On the use and applicability of the modified Omori law --- ILARIA SPASSIANI INGV, Italy
Complex space-time modeling and functional analysis for probabilistic forecast of seismic events	ST4	Speaker 4	Functional depth function for seismic waves ordering --- ELVIRA ROMANO Second University of Naples, Italy

Session title	Session Tag	Role	Full string
Advances in Spatial and Temporal Statistics	ST6	Chair	Chair: Marc Genton
Advances in Spatial and Temporal Statistics	ST6	Organizer	Organizer: Marc Genton
Advances in Spatial and Temporal Statistics	ST6	Speaker 1	Multivariate Type-G Random Fields --- DAVID BOLIN Chalmers University of Technology, Sweden
Advances in Spatial and Temporal Statistics	ST6	Speaker 2	Visualization and Assessment for Properties of Spatio-temporal Covariances --- YING SUN KAUST, Saudi Arabia
Advances in Spatial and Temporal Statistics	ST6	Speaker 3	Inference Methods for Asymptotically Independent Samples of Extremes --- STEFANO RIZZELLI Bocconi University, Italy
Advances in Spatial and Temporal Statistics	ST6	Speaker 4	Testing isotropy for spatial processes --- ALESSANDRO ZINI Bicocca University of Milano, Italy
New Developments in Methods for Spatial and Spatiotemporal Data	ST7	Chair	Chair: Mikyoung Jun
New Developments in Methods for Spatial and Spatiotemporal Data	ST7	Organizer	Organizer: Murali Haran
New Developments in Methods for Spatial and Spatiotemporal Data	ST7	Speaker 1	Joint point pattern modeling for species co-occurrence using camera trap data --- ERIN M. SCHLIEP University of Missouri, US
New Developments in Methods for Spatial and Spatiotemporal Data	ST7	Speaker 2	Combining a glacier dynamics model with multiple surface data --- MURALI HARAN Penn State University, US
New Developments in Methods for Spatial and Spatiotemporal Data	ST7	Speaker 3	Adaptive Ensemble Kalman Filters for Online Bayesian State and Parameter Estimation --- JONATHAN STROUD Georgetown University, US
New Developments in Methods for Spatial and Spatiotemporal Data	ST7	Speaker 4	Spatio-temporal modeling of heavy tailed data --- GABRIEL HUERTA University of New Mexico, US

Session title	Session Tag	Role	Full string
Advances in time series analysis for environmental monitoring	TS1	Chair	Chair: Vyacheslav Lyubchich
Advances in time series analysis for environmental monitoring	TS1	Organizer	Organizer: Vyacheslav Lyubchich
Advances in time series analysis for environmental monitoring	TS1	Speaker 1	Bivariate Negative Binomial Distribution for Modelling Correlated Count Data --- ABDEL EL-SHAARAWI Cairo University, Egypt
Advances in time series analysis for environmental monitoring	TS1	Speaker 2	Extreme Weather Events and road accidents in Mexico --- SAZCHA MARCELO OLIVERA Metropolitan Autonomous University , Mexico
Advances in time series analysis for environmental monitoring	TS1	Speaker 3	Lag-Adjusted Models for Air Pollution Time Series --- WESLEY BURR Trent University, Canada
Recent advances in temporal analysis of environment related changes	TS3	Chair	Chair: Renjun Ma
Recent advances in temporal analysis of environment related changes	TS3	Organizer	Organizer: Renjun Ma
Recent advances in temporal analysis of environment related changes	TS3	Speaker 1	Longitudinal modelling of crop root physiology as a breed-specific spatial response to environmental conditions --- GRACE S. CHIU Australian National University, Australia
Recent advances in temporal analysis of environment related changes	TS3	Speaker 2	Detection of new substantial influences in spatio-temporal data --- YUEHUA WU York University, Canada
Recent advances in temporal analysis of environment related changes	TS3	Speaker 3	A Leslie matrix simulation model for modelling wildlife age-specific harvest data --- YING ZHANG Acadia University, Canada