



Return final meeting

Comunicazione, Disseminazione
e Valorizzazione dei risultati

3-5 dicembre 2025

**Napoli,
Centro Congressi, Stazione Marittima**



Thursday 4 December 2025

Parallel sessions - Thematic talks by RETURN fixed-terms researchers

09:00 – 10:30

Session Sea – Room Urania 2

Chairpersons Laura Gaggero (Università di Genova), Maria Vittoria Struglia, (ENEA)

Laura Baldassarre, OGS

Resilience of microbial communities in an Adriatic lagoon subjected to multiple stressors

Marco Capodici, Università di Palermo

Chemical-Physical combined treatment of TPH contaminated marine sediments by using potassium ferrate

Valeria Lo Presti, Università di Palermo

Marine geological studies applied in RETURN Project

Viviana Mangraviti, Università di Padova

Bridging the gap: uncertainty quantification in terrestrial and marine slope stability analysis

Marco Munari, Università di Padova

Natural CO₂ vents as models to unravel Ocean Acidification impacts on pollutant dynamics and health risks

Nicola Petacco, Università di Genova

A Study on Ship-Induced Wakes in Coastal and Port Areas

Daniele Trogu, Università di Cagliari

Integrated study of morphodynamics and resilience of Mediterranean microtidal beaches to natural and anthropogenic forcing: focus on flood early warning system and biomass-based Nature-Based Solutions

Sara Tuozzo, Università di Napoli Federico II

Assessing the accuracy of wave model data: A bias correction approach for coastal engineering applications

Session Land_1 – Room Galatea

Chairperson Francesco Ballio, Politecnico di Milano

Martino Bernard, Università di Padova

Rainfall-Runoff Modeling in Rocky Headwater Catchments for Predicting Debris Flow Initiation

Francesca Borghi, Università di Bologna

Climate Change and Occupational Health and Safety: An Umbrella Review of the Effects and Occupational Prevention Strategies

Martina Bosone, Università di Napoli Federico II

Multicriteria and GIS-based evaluation methods for Multi-hazard Resilient Urban Development

Ouafik Boulariah, Università di Cagliari

From drought to systemic shortage: multi-scale SPI/SPEI and standardized storage in the interconnected Flumendosa system

Federico Canepa, Università di Genova

Understanding and modelling extreme winds and temperatures

Diana Caporale, Università di Bari Aldo Moro

Public preferences for flood adaptation strategies: a choice experiment approach in a high-risk coastal area

Xue Chen, Università di Padova

Monitoring Ground Instabilities Using InSAR: Feasibility Assessment and Spatiotemporal Analysis

Silvio Coda, Università di Napoli Federico II

Ground Instability Susceptibility Assessment in Italian Geological Settings Using Multi-Method Approaches

Session Land_2 – Room Calipso

Chairperson Francesca Bozzano, Sapienza Università di Roma

Rosa Colacicco, Università di Bari Aldo Moro

Badlands susceptibility assessment in the Basilicata region, southern Italy

Lucia Coppola, Università di Napoli Federico II

Non-structural remedial measures for landslides: monitoring and interpretation

Elisa Costamagna, Politecnico di Torino

Bridging the Gap Between Academia and Industry: Teaching Experiences on Natural Hazards

Eleonora Dallan, Università di Padova

Advances in future projections of precipitation extremes

Sara Falsini, Università di Firenze

Effects of micro-nanopollutants of plants

Anjom Farbod Khosro, Politecnico di Torino

Data-driven seismic monitoring of landslides using machine learning

Marco Knuever, Università di Bari Aldo Moro

Magma - rock interaction: influence on eruption dynamics

Isabella Lapietra, Università di Bari Aldo Moro

Integrated risk assessment in volcanic hazard zones: insights from Mt. Vesuvius

Session Cities – Room Urania 1

Chairperson Mario Di Bacco, Università di Firenze

Arianna Cauteruccio, Università di Genova

Improving the assessment of pluvial flooding damage scenarios using accurate and innovative rainfall measurements, deep learning object detection models, and mitigation solutions

Maria Fabrizia Clemente, Università di Napoli Federico II

Decision support systems for the transition of urban districts in multi-risk scenarios

Benedetta Giudice, Politecnico di Torino

Evaluating Urban Resilience through Spatial Indicators: A Multidimensional Approach in Turin

Jennifer D'Anna, Università di Palermo

Decision Support Tools for Allocating Economic Resources in Seismic Retrofitting of Residential Buildings

Claudio Marciano, Università di Genova

Organizational Learning in Genoa After the 2011 and 2014 Floods

Rossella Marmo, Università di Napoli Federico II

A method for assessing the building envelope vulnerability to multiple hazards

Giulia Paoletti, Eurac Research

Evaluating heatwave vulnerability in a social housing in the Alps: a multidisciplinary approach

Francesca Ferretti, Università di Bologna

Multi-risk assessments for urban resilience: Case study of Bologna

Beatrice Cantoni, Politecnico di Milano

Management of multiple emerging contaminants impacts in the environment: a One-Health approach

Parallel sessions - Thematic talks by RETURN fixed-terms researchers

11:30 – 13:00

Session Land_3 – Room Galatea

Chairperson Fabio Dioguardi, Università di Bari Aldo Moro

Isabella Serena Liso, Università di Bari Aldo Moro

Groundwater and other driving factors in the predisposition, activation and evolution of ground instabilities in karst coastal areas

Michele Locatelli, Università di Genova

Polycyclic transition from creep to brittle deformation in serpentinite fault zones: a multidisciplinary approach (Voltri Massif, NW Italy)

Marco Lompi, Università di Firenze

FUTUre RAin: a web application to assess the impact of climate change on subdaily extreme precipitation in Italy

Giorgio Manno, Università di Palermo

Advances in integrated multidisciplinary approaches for the analysis of ground instabilities

Chiara Martinello, Università di Palermo

Landslide susceptibility under extreme rainfall: performance limits and model transferability

Paola Mazzoglio, Politecnico di Torino

Mapping Temporal Changes in Ordinary and Extraordinary Rainfall Extremes in Italy

Nada Mzid, Università di Napoli Federico II

Advancing National-Scale Land Productivity Assessment Through Enhanced NDVI Trajectory Metrics: Insights from the Italian Case

Francesco Neglia, Università di Bari Aldo Moro

Study of dynamics of granular flows through large-scale experiments and numerical modelling

Bruna Vendemmia, Università di Napoli Federico II

Tools for understanding and reclaiming risk in multi-risk contexts: the Bagnoli-Coroglio regeneration process

Session Land_4 – Room Calipso

Chairperson Maria Giuseppina Limongelli, Politecnico di Milano

Enrico Paolucci, Università di Bologna

The contribution of passive seismic prospecting in landslide characterization

Luigi Piemontese, Università di Firenze

Integrating Empirical Modelling and Co-Creation for Climate-Resilient Water Storage in Agriculture

Elisa Pilia, Università di Cagliari
Multi-risk analysis for the Pre-Nuragic and Nuragic Sardinian Heritage

Fabio Rollo, Sapienza Università di Roma
Modelling seismic- and rainfall-induced shallow landslide dynamics

Paola Salmona, Università di Genova
A statistical tool for creating landslide susceptibility maps in GIS environment

Aya Taleb, Università di Bari Aldo Moro
Self-calibrated Laser Induced Breakdown Spectroscopy for on-flight monitoring of Volcanic Ash

Rita Tufano, Università di Napoli Federico II
Insights into the preparatory and triggering roles of rainfall in landslide occurrence: the case of Campanian pyroclastic soils

Francesca Vigotti, Politecnico di Milano
Designing with Fragility: Co-Design and the Spatial Construction of Antifragile Territories

Session Infrastructures/Land/Cities – Room Urania 1

Chairperson Luca Pozza, Università di Bologna

Donatella de Silva, Università di Napoli Federico II
Fire fragility assessment for bridges

Mattia Neri, Università di Bologna
Mitigating future water scarcity: optimized reservoir management strategies under a changing climate

Alessio Rubino, Politecnico di Torino
Risk assessment of Infrastructures under Natural Hazards: Insights from Structural Robustness

Francesca Maria Ugliotti, Politecnico di Torino
The Safety & Operations Training Hub: Immersive Experiential Learning for Critical Infrastructures

Matteo Anedda, Università di Cagliari
When wildfires meet social IoT and AI: a new era of prevention and response

Marica Falzarano, Sapienza Università di Roma
Bioplastic biodegradation mechanisms in simulated natural and waste management systems

Nicolò Perello, Fondazione CIMA
Modeling crown fires in cellular automata simulator PROPAGATOR with LiDAR-based fuel characterization

Benedetta Moccia, Sapienza Università di Roma
Dynamic assessment of urban pluvial flooding: application to the Milvian Bridge district in Rome

Francesca Linda Perelli, Università di Napoli Federico II

Ashfall influence on seismic behavior for ordinary masonry buildings

Mariano Di Domenico, Università di Napoli Federico II

State-of-the-art, proposal and application of physical vulnerability models for the built environment