

PNRR progetto RETURN Dissemination workshop

Multirisk models assessment
validation and decision making

Bari 19-21 Giugno 2024

19 Giugno ore 14.00 registrazione
Dipartimento Scienze della Terra e Geoambientali
Campus Universitario Via E. Orabona 4



PROGRAMMA PLENARIA RETURN PNRR

Multi risk models from assessment to validation and implication for decision making

19 Giugno 2024

- 15:30 – 19:30 **Young Day VS2**, Aula Magna, Dipartimento di Scienze della Terra e Geoambientali (vedere programma Young Day):
- 15:00 – 18:30 **Sessione tematica VS4**, Aula 1, Dipartimento di Scienze della Terra e Geoambientali:
Aggiornamento sulle attività del progetto
Pollution and Land degradation
- Fate, transport, and bioaccumulation of contaminants: modeling tools for coastal- marine environments. **Rosati G.**, Booth R.S.G., Libralato S., Solidoro C., Canu D.
 - The One-health approach applied to micropollutants in the water environment: assessing the risk from sources to humans to plan monitoring and mitigation strategies. Ianes J., Penserini L., Sezenna E., Saponaro S., Cantoni B., **Antonelli M.**
 - Geochemical characterization and ecotoxicological evaluation of Sarno River stream sediment and waters: an integrated study. **Albanese S.**, Parrella L., Schiavo S., Iannone A., Guarino A., Manzo S.
 - Investigating primary producers buffer effect against mercury pollution in two marine invertebrate species. **Munari M.**, Fabrello J., D'Aniello I., Capasso A., Moro I., Campaci C., Formentin M., Manzo S., Ciampaglia R., Roviezzo F., Matozzo V.
 - *Squalius cephalus* exposed to PFAS downregulates Prdx4 gene expression in kidney. **Pacchini S.**, Vanzan G., Piva E., Schumann S., Drago L., Cortese M., Bottacin-Busolin A., Marion A., Irato P., Santovito G.
 - Use of Toxicity Battery Index in prioritizing sites characterized by chemical contamination. A first application in Campania (Southern Italy) coastal areas. Schiavo S., Accardo S., Parrella L., Crovato C., Montereali M.R., **Manzo S.**
- Litter and microplastics*
- Macro and Micro Litter distribution in marine and coastal sediments: highlights from ongoing research activities. **Rizzo A.**, Capobianco G., De Santis V., Gorga E., Lapietra I., Lisco S., Liso S., Marsico A., Mastronuzzi G., Mele D., Parise M., Scardino G., Scicchitano G., Serranti S.
 - Degradation of Bioplastic in Marine Water by microorganisms: chemical and spectroradiometric analyses to assess a future protocol. Corbari L., Ciruolo G., Barbera M., Catania V., Salamone M., **Piazzese D.**
 - Monitoring microplastics in wastewater treatment plants. **Pagliaccia B.**, Lubello C., Gori R.
 - Multidisciplinary approach to investigate impact of MPs in soil. **Santini G.**, Santorufo L., Siciliano A., Riccio L., Zizolfi M., Landi S., Power K., Rosati L., Di Natale G., Trifuoggi M., Maisto G.
 - Identification and classification of macro- and microplastics dispersed in terrestrial and marine environment by hyperspectral imaging. **Serranti S.**, Capobianco G., Coccozza P., Cucuzza P., Gorga E., Bonifazi G.
 - Hyperspectral imaging to monitor anaerobic degradation of bioplastic products. Capobianco G., Falsarano M., Bonifazi G., Gorga E., **Polettini A.**, Pomi R., Rossi A., Serranti S.
 - Microplastics: from the detection to the characterization of their effects into the environment. **Pagliaccia B.**, Santini G., Lubello C., Maisto G., Gori R., Francalanci S., Polettini A., Falzarano M., Cincinelli A., Sforzi L., Serranti S., Capobianco G., Gorga E., Falsini S., Colzi I., Rizzo A.
 - An integrated approach for mining waste remediation and metal recovery. **Sogos G.**, Grosso B.
 - Electrochemical techniques for the removal of pollutants and microplastics in waters and soils. **Vacca A.**, Mascia M.
 - In situ stabilization of mine heaps by microbially assisted phytoremediation. **Calandrelli T.**, Alisi C., Bacchetta G., De Giudici G., Medas D., Onnis P., Paganin P., Pili S., Tasso F.
 - Cellulose-based nanostructured sorbent materials for fresh- and seawater decontamination. **Punta C.**, Riva L., Corsi I.
 - Enhanced sediment washing by means of anionic, non-ionic and mixed surfactants. Russo Tiesi M., Capodici M., Di Bella G., Nicitra E., Vinti G., Viviani G., **Di Trapani D.**
 - Removal of organophosphorus compounds from aqueous solutions using Neapolitan Yellow Tuff: A preliminary study. **De Paola F.**, De Tommaso G., Iuliano M., Piccialli V., Zarrelli A., Tarallo O., Montagnaro F., Balsamo M., Pinto G.
 - Towards the integration of circular economy (TS1) and sustainability (VS4) principles into a framework to identify the contaminated site remediation reducing risks. **Meneghin G.**, Sellitri A., Scanferla P., Di Carlo G., Frisario S.A.
 - Advanced nanoremediation for the effective removal of recalcitrant mixtures of persistent pollutants from groundwater. Bianco C., Granetto M., Tosco T., Casasso A., **Sethi R.**

	<ul style="list-style-type: none"> Isolation of aerobic and anaerobic bacterial consortia from a contaminated aquifer able to degrade 1,2-dichloroethane. Scirè Calabrisotto L., Cruciatà I., Cusumano P., Quatrini P., Catania V.
<p>20 Giugno 2024</p>	<p>Sessioni tematiche VS2, VS3, VS4, TS1, TS3, DS, Dipartimento di Scienze della Terra e Geoambientali, Università degli Studi di Bari "Aldo Moro" (alle ore 11:00 è previsto un break)</p> <p>- 09:30 – 13:00 Sessione tematica VS2, Aula Magna: Riunione di coordinamento esteso di spoke.</p> <p>- 09:00 – 13:10 Sessione tematica VS3, Aula 4:</p> <ul style="list-style-type: none"> A probabilistic multi-hazard approach from ICARIA project. Zuccaro G., Evans B., Chen A. Deep vs shallow magmatic systems controlling pure Plinian vs caldera-forming eruptions: experimental constraints from analcime stability field. Perinelli C., Gaeta M., Palladino D.M. Regional-scale physics-based numerical simulations of multiple ground shaking scenarios in the Irpinia region (Southern Italy) for seismic risk assessment. Vanini M., Smerzini C., Paolucci R., Mazzieri I. Radionuclides behavior in hydrothermal volcanic systems: Preliminary investigations at high and low gas flux emission sites. Bufi G., Massaro S., Giordano F., Dellino P., Rainò S., Dioguardi F., Rufino F., Caliro S., Aiuppa A., Lentini S., Vitale A., Costa A., Sulpizio R. On-Site Earthquake Early Warning: Application to Northern California. Longobardi V., Allen Richard M., Colombelli S., Zollo A. Enhancing The Passive Monitoring Of The Rock Damage Process. De Landro G., Vanorio T., Guo T. Analysis of the factors affecting recovery process of structures, infrastructures and communities considering past Italian earthquake case studies. Boni M.P., Petrini L. A methodology for large-scale assessment of the seismic stability of infill walls. Iovinella I., Marzo A., Roselli I., Saitta F., Tripepi C. An integrative perspective on frameworks for multi-risk research. Ongaro M., Petrini L. A dual structural monitoring system for the main building of the University of Naples' Federico II School of Engineering. Iervolino I., Baltzopoulos G., Parolai S., Poggi V., Rainieri C., Zuliani D. Assessment of source processes and wave propagation mechanisms in fossil and active seismic structures: a multidisciplinary study from the Voltri massif (Genoa, Italy). Locatelli M., Crispini L., Scambelluri M., Spallarossa D., Federico L., Cianfarra P., Morelli D. Investigation of seismic-electromagnetic effects in Southern Italy: implications for fluids detection and earthquakes precursors. Ventola I., Garambois S., Balasco M., De Girolamo M., Filippucci M., Romano G., Stabile T.A., Tallarico A., Tripaldi S., Siniscalchi A. Self-calibrated Laser Induced Breakdown Spectroscopy for in situ monitoring of Volcanic Ash. Taleb A., Dell'Aglio M., Alessandro De Giacomo A. Evidence for Inversely Related Rupture Velocity and Stress Drop from Mw 3+ Campi Flegrei Caldera (Southern Italy) Earthquakes. Nazeri S., Muzellec T., Zollo A. An EGF technique to infer the source parameters of a circular crack growing at a variable rupture velocity. de Lorenzo S., Michele M. The new seismic catalogue of the Gargano area with the OTRIONS seismic network. Ferreri A., Romeo A., Giannuzzi R., Cecere G., Falco L., Filippucci M., Michele M., Serlenga V., Panebianco S., Stabile T., Selvaggi G., Tallarico A. Fine particles and roughness effects on the granular flows mobility: insights from large-scale experiments. Neglia F., Sarocchi D., Dioguardi F., Rodriguez-Sedano L.A., Segura-Cisneros O., Montenegro-Rios A., Bougouin A., Sulpizio R. First results of a rheological characterization protocol for fine volcanic sediment suspensions. Tranquilino C., Dioguardi F., Gentile L., Caballero L., Sarocchi D., Dellino P. <p>- 09:00 – 12:30 Sessione tematica VS4, Aula 1:</p> <ul style="list-style-type: none"> Tematiche trasversali Spoke – Hub Reporting Piattaforma RETURN – Possibili contributi di SP4/gestione dati/prodotti veso Piattaforma Bandi a cascata – gestione Incubatori e trasferimento tecnologico Attività ambasciatori Comunicazione – sito RETURN Aggiornamento WP

- 09:00 – 13:00 Sessione tematica **TS1**, Aula 3 (Dipartimento di Matematica):

- Aggiornamento sullo stato di avanzamento delle attività.

- 09:00 – 13:00 **Sessione tematica TS3**, Aula 10 (Dipartimento di Matematica):

- Stato di avanzamento dei WP
- Bandi a cascata: progetti selezionati (bando misto enti-imprese)
- Pianificazione attività di disseminazione, trasferimento tecnologico etc...
- Relazione dal G.d.L stakeholders

- 09:00 – 13:00 **Sessione tematica DS**, Sala Riunioni 3° piano:

Aggiornamento sullo stato di avanzamento delle attività.

Plenaria, Aula Orabona, Politecnico di Bari

- 14:00 – 14:30: Saluti istituzionali: dott. Fabrizio Cobis (MUR), dott.ssa Adriana Agrimi (UNIBA), dott. Nicola Lopane (Protezione Civile, Regione Puglia)

- 14:30 – 15:00 **VS1**:

Ballio T. Water

- 15:00 – 15:30 **VS2**:

Fanti R., Berti M., Parise M., Chiocci F.L., Ciccarese G., Liso I.S., Scacchia E., Tacconi Stefanelli C., Bozzano F., Calcaterra D., Di Martire D., Martino S.
Esposito C., Forte G., Ceramicola S., Scacchia E., Napoli M.L., Tufano R., **Rosi A.**, Catani F., Bozzano F., Martino S.

- 15:30 – 16:00 **VS3**:

Natale J., **Paolucci R.**, **Leone M.**

- 16:30 – 17:00 **VS4**:

Mzid N., Di Leginio M., Manna P., Terribile F.
Fiorucci P., D'Andrea M., Degli Esposti S., Trucchia A., Giannino F., Lingua E., Mauri L., Anedda M., Bagnerini P.

- 17:00 – 17:30 **TS1**:

Rago M., Salmona P., Cattari S., **Lagomarsino S.**
Quattrone A., Gervasio M., Polese M., Tocchi G., D'Ambrosio V., Miraglia V., Pittore M.
Polese M., Iannacone L., Tocchi G., Ferretti F., Pozza L., Verderame G., Galasso C., Pittore M.

- 17:30 – 18:00 DISCUSSIONE

Sessione poster, Dipartimento di Scienze della Terra e Geoambientali, Università degli Studi di Bari "Aldo Moro"

- 18:00 – 19:00, Museo di Scienze della Terra

21 Giugno 2024

Plenaria, Aula Orabona, Politecnico di Bari

- 09:00 – 09:30 **TS2**:

Castro Rodriguez D.J., Vitale M., Baldissone G., Demichela M., Barressi A.A.

- 09:30 – 10:00 **TS3**:

Arrighi C., Castelli, F.

- 10:00 – 10:30 **DS**:

Marani M., Dallan E., Marra F., Fossier G., Borga M.
Devò P., Caruso M.

- 10:30 – 11:00 DISCUSSIONE

- 11:00 – 12:00 BREAK+POSTER

- 12:00 – 13:00 Interazione spoke ed ambasciatori

- 13:00 – 14:00 BREAK+POSTER

- 14:00 – 14:30 Confronto con altre esperienze PNRR, il progetto GeoSciences IR

- 14:30 – 19:00 **Workshop: "Multi risk models from assessment to validation and implication for decision making":**

- 14:30 – 15:00 Presentazione generale, **Prota A.**
 - 15:00 – 15:30 Intervento Capo Protezione Civile **Curcio F. e Gallone M.A.**
 - 15:30 – 16:00 DS: Uncertainty assessment for predictions of natural hazard events and impact. **Montanari A.**, the RETURN uncertainty ask force.
 - 16:00 – 16:30 TS2: CIMA Foundation
 - 16:30 -- 17:00 VS4: Environmental degradation in the Italian Seas: Fate and transport of multiple stressors. **Laurent C.**
 - 17:00 – 17:30 VS2: Trigger-based multiple geohazard scenarios: Activities overview and tool application. **Martino S.**, Bozzano F., Calcaterra D., Di Martire D.
 - 17:30 – 18:00 TS1: Integrating hazard, exposure and vulnerability models within impact chains. **Polese M.**, Iannacone L., Tocchi G., Ferretti F., Pozza L., Verderame G., Galasso C., Pittore M.
 - 18:00 – 18:30 VS3: Next generation probabilistic hazard for Mt. Vesuvius. **Selva J.**, Bebbington M., Costa A., Dellino P., Dioguardi F., Massaro S., Marzocchi W., Mele D., Sandri L., Sulpizio R.
 - 18:30 – 19:00 TS3: The road to adaptation action: a study of community perception in Ischia. Caporale D., **Rinaldi A.**
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Poster Sessions

Sessione VS4:

- Large-Scale Monitoring of Land and Soil Degradation Due to Coppicing Clearcuts Management from PRISMA, Sentinel-2 and Landsat 8 Satellite Data. **Mzid N.**, Terribile F.
- Hyperspectral imaging to monitor anaerobic degradation of bioplastic products. Capobianco G., Falsarano M., Bonifazi G., Gorga E., **Polettini A.**, Pomi R., Rossi A., Serranti S.
- Microplastics: from the detection to the characterization of their effects into the environment. **Pagliaccia B.**, Santini G., Lubello C., Maisto G., Gori R., Francalanci S., Polettini A., Falzarano M., Cincinelli A., Sforzi L., Serranti S., Capobianco G., Gorga E., Falsini S., Colzi I., Rizzo A.
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- Enhanced remediation of marine sediments using anionic, nonionic and mixed surfactants: role of operational conditions. Russo Tiesi M., Capodici M., Di Bella G., Licitra E., Vinti G., Viviani G., **Di Trapani D.**
- Removal of organophosphorus compounds from aqueous solutions using Neapolitan Yellow Tuff: A preliminary study. **De Paola F.**, De Tommaso G., Iuliano M., Piccialli V., Zarrelli A., Tarallo O., Montagnaro F., Balsamo M., Pinto G.
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- Advanced nanoremediation for the effective removal of recalcitrant mixtures of persistent pollutants from groundwater. Bianco C., Granetto M., Tosco T., Casasso A., **Sethi R.**
- Isolation of aerobic and anaerobic bacterial consortia from a contaminated aquifer able to degrade 1,2-dichloroethane. Scirè Calabrisotto L., Cruciatà I., Cusumano P., Quatrini P., **Catania V.**
- Use of Toxicity Battery Index in prioritizing sites characterized by chemical contamination. A first application in Campania (Southern Italy) coastal areas. Schiavo S., Accardo S., Parrella L., Crovato C., Montereali M.R., **Manzo S.**

Sessione TS1:

- Identifying buildings' envelope vulnerabilities against natural hazards to reduce risk to the urban system. Castelluccio R., **Marmo R.**
- Climate change in the urban settings: effects on the general and on the occupational population. **Borghi F.**, Decataldo F., Violante F.S., Negri E.V.L.
- Interpreting Urban Resilience Capacity: a comprehensive catalogue of spatial indicators. Bronzino G., **Cazzola I.**, Giudice B., Vitulano V., Voghera A.
- Analysis of Dissipative and Low-Dissipative structures through to the Loss-Based Earthquake Engineering. Bartoli G., **Gusella F.**
- Fragility curves for masonry-infilled rc buildings subjected to pyroclastic density currents. **Gaetani d'Aragona M.**, Polese M., Verderame G.M.
- A scalable procedure for evaluating multi-risk interactions: updating seismic vulnerability of buildings based on roof ash loads. **Tocchi G.**, Del Gaudio C., Polese M., Verderame G.M.
- Towards the integration of circular economy (TS1) and sustainability (VS4) principles into a framework to identify the contaminated site remediation reducing risks. **Meneghin G.**, Sellitri A., Scanferla P., Di Carlo G., Frisario S.
- Strategic Environmental Assessment and climate change adaptation. Corrado Zoppi et al.
- Towards an integrated and participatory methodology for the identification and evaluation of best practices in Urban Risk Management. Claudio Marciano et al.

Sessione VS1:

- Development of an a-priori numerical indicator for the evaluation of the impact of diffusion and dispersion in water distribution systems. **Piazza S.**, Sambito M., Freni G.
- Assessment of future changes on sub-daily precipitation extremes using an ensemble of convection-permitting models. **Dallan E.**, Marra F., Fossier G., Marani M., Borga M.

Sessione VS2:

- Non-structural mitigation strategies for landslides hazard in structurally complex formations. **Coppola L.**, Pagano L., Silvestri F., Di Martire D., Calcaterra D., Ferrari A., Manno G., Rosone M., Zicarelli M.
- Results of preliminary applications of a toolchain for subsidence. **Coda S.**, De Falco M., Allocca V., De Luise S., Di Martire D., Forte G., Tufano R., Calcaterra D.
- Submarine fluid escapes. Their role on ground instabilities according to predisposing, preparatory and triggering factors. **Lo Presti V.**, Bracci M., Maiorana M.G., Agata M., Sulli A., Martino S., Di Martire D.
- Nearshore submarine landslides: from the susceptibility assessment to the landslide run-out and tsunamis simulation in the Capo D'Orlando Basin. **Scacchia E.**, Zaniboni F., Casalbore D., Gamberi F., Ceramicola S., Esposito C., Berti M., Chiocci

F.L.

- Toolchains for estimating earth flow effects at regional scale: an example for evaluating the predisposing factors. Martinello C., Salmona P., Manno G., Antonielli B., Rollo F., **Paolucci E.**, Berti M., Fanti R., Cappadonia C., Rotigliano E., Bozzano F., Martino S.
- Toolchains for estimating earth-flow effects at regional scale: an example for evaluating the preparatory/triggering processes. **Rollo F.**, Manno G., Antonielli B., Martinello C., Paolucci E., Salmona P., Zaniboni F., Colombero C., Amorosi A., Bozzano F., Martino S.
- Mapping social vulnerability to multi-hazard scenarios for risk reduction strategies. **Lapietra I.**, Colacicco R., Bozzano F., Calcaterra D., Di Martire D., Martino S., Rinaldi A., Rizzo A., Capolongo D.
- A workflow to identify uncertainty sources in ground instability models. **Mangraviti V.**, Brenna A., Chen X., Ghaderpour E., Lo Presti V., Parrino N., Bozzano F., Martino S., Bizzi S.
- Application of a tool-chain for runout assessment at basin scale. **Falconi L.M.**, Esposito C., Moretti L., Puglisi C., Righini G., Tufano R.
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Sessione **VS3**:

- Global Format Method for Reinforced Concrete Structures: Global Structural Resistance as a function of Reinforcement Strain. Miceli E., **Castaldo P.**
- Bracing System Development based on Topology Optimization Algorithm. **Sardone L.**, Sotiropoulos S.
- Three-dimensional magnetotelluric inversion applied in the northern sector of the Irpinia fault system (Southern Apennine). Di Gennaro D., Balasco M., De Girolamo M., Romano G., Tripaldi S., Siniscalchi A.
- Estimation of Source Parameters of Earthquakes from Fourier Phase Spectra Fitting. Parolai S., Baldassi F., Poggi V.
- Fault (re)activation and fluid-induced seismicity: an example from the Val d'Agri intermontane basin (southern Italy). **Lavecchia A.**, Serlenga V., Filippucci M., Stabile T.A., Prosser G., Tallarico A.
- The Solfatara Earthquake 20/5/24 Md4.4. Baraschino R., Cito P., Colombelli S., De Landro G., Elia L., Festa G., Iaccarino A.G., Iervolino I., Muzellec T., Nazeri S., Russo G., Scala A., Scotto di Uccio F., Strumia C., **Zollo A.**
- Multi-hazard resilience-driven bridge management of aging bridge networks and role of adaptive recovery scenarios on seismic resilience. Jafari L., Biondini F.
- Seismic attenuation in the Southern Apennines: two examples from Agri Valley (Basilicata) and Gargano (Apulia). Lucente S., de Lorenzo S., del Pezzo E., Filippucci M., Ninivaggi T., Serlenga V., Stabile T.A., Tallarico A.
- A new UNIBA-INGV GNSS CORS Network for Gargano monitoring. **Romeo A.**, Cecere G., Filippucci M., Tallarico A., Selvaggi G.
- Interrelationship between the seismic velocity and attenuation, and electrical resistivity (ρ) parameters using rock-physics modelling. Khasi R., Siniscalchi A.
- Decision Support Tools for Allocating Economic Resources in Seismic Retrofitting of Residential Buildings. Colajanni P., **D'Anna J.**, La Mendola L., Mancini S.
- Using repeating microearthquakes to infer medium velocity variations in response to water injection at the Geysers geothermal field. Adil M., Palo M., Zollo A.
- Life-cycle seismic reliability of aging bridges under chloride-induced corrosion in a changing climate. Nava G.V., D'Iorio A., Biondini F.
- Fossil chemical-physical (dis)equilibria between paleofluids and host rocks and their relationship to the seismic cycle and earthquakes. Curzi M., Carminati E.
- Estimation of Source Parameters of Earthquakes from Fourier Phase Spectra Fitting. **Parolai S.**, Baldassi F., Poggi V.
- Monitoring seismic hazard with satellite geodesy in Italy: first steps for the integration of GNSS and European Ground Motion Service data. **Giaccio L.**, Belloni V., Ravanelli R., Crespi M.

Sessione **TS2**:

- Assessment and monitoring of critical reinforced concrete infrastructure affected by chloride-induced corrosion. Jamal J., Carboni B., Quaranta G., Lacarbonara W.
- Natural Hazard Triggering Technological Disasters (NaTech): data analysis and risk assessment. **Vianello C.**, De Cet G., Capasso E., Di Domenico A., Portarapillo M., Di Benedetto A., Demichela M., Barresi A., Vitale M., Rodriguez D.
- FOCA: the Italian FIOod and Catchment Atlas. Claps P., Evangelista G., Ganora D., **Mazzoglio P.**, Monforte I.
- A two-phase procedure to model historical vulnerabilities against NaTech: Lightning-triggered events in industrial critical infrastructures. Castro Rodriguez D.J., Vitale M., Baldissoni G., Demichela M., Barresi A.A.
- Mesoscale maps of the wind hazard over Italy. Bruno L., Raffaele L., **Colucci E.**, Rinaudo F., Giulio Tonolo F.
- Updating Risk Assessment for Hydraulic Infrastructures: Evaluating the Impact of Extreme Rainfall Events in Italy. **Moccia B.**, Ridolfi E., Mineo C., Russo F., Napolitano F.
- Source detection into the sewer system by Eulerian and Lagrangian sensors. **Sambito M.**, Freni G.

- Advances in landslide susceptibility assessment at regional scale. Titti G., Antelmi M., Fusco F., Longoni L., Borgatti L.
- A Risk-based Framework for emergency management of bridges. Fadaei F., Giordano P.F., Limongelli M.P.
- Potentialities of the Satellite-Based Monitoring of Multi-Span Pre-Stressed Concrete Bridges. Miano A., Giordano P.F., Di Martire D., Giulivo F., Liuzzo R., Tufano R., Bausilio G., Ballio F., Calcaterra D., Landolfo R., Limongelli M.P., Prota A.
- Comprehensive Collection and Preliminary Comparative Analysis of Observed and Modeled Wave Data along the Entire Italian Coastline. Codato C., Castellino M., Lira-Loarca A., Tuozzo S., Besio G., Calabrese M., De Girolamo P.
- A simplified approach to the risk assessment of infrastructures subjected to snow avalanches. **Rubino A.**, Frigo B., Chiaia B.
- Towards an Italian flood data repository: a natural language processing technique application on literature and social media. **Zhuang R.**, Manfreda S., Navarro J.S.
- WWTPs mapping using a multi-hazard, multi-scale approach. **Castiglione M.**, Beringheli G., Corsino S.F., Torregrossa M.,
- Development of industrial rack fragility models to support industrial seismic risk assessment. Donà M., Saler E., Piredda G., Zonta A., Bernardi E., Ceresara M., da Porto F.
- Application of Geomatics Techniques for Surveying and Structural Monitoring of Artificial Cavities. **Spadaro A.**, Piras M., Chiaberge M.
- Physically-based modeling for dam filling prediction. Corti M., **Antelmi M.**, Papini M., Longoni L.
- Experimental investigation design for validating tsunami action models on structures/infrastructures according to standard codes. **Oddo M.C.**, Cavaleri L.
- The TERIMAAS framework to bridge scales in Multi-Hazard Assessment. **Ugliotti F.M.**
- A Resilience-Based Decision Support System for Wildfire Risk Management, Prevention, and Land Protection. **Berardi D.**, Galuppi M., Lombardi M., Cammarata G.P.
- Sand boil phenomena in large river embankments. Gottardi G., **Bertolini I.**, Marchi M.
- The modernization of the railway infrastructure planning process and the integration of the study of vulnerability related to climate change. Campisi T., Castelli F., Lentini V., Loiacono F.
- Flood Prone-Area Mapping Through Advanced Machine Learning Techniques and Geomorphic Data Integration. Saavedra Navarro J., Zhuang R., Manfreda S.
- Impact of detention dams on flood frequency distributions: the case study of Ottenstein Dam (Austria). **Avino A.**, Manfreda S.
- An integrated monitoring network to assess the coastal landside risk. Castelli F., Campisi T., Lentini V., Lo lacono F.

Sessione **TS3**:

- Group-Decision Methods for Real-Life Experts. **Janda P.**
- Unravelling the role of cultural heritage for community resilience to climate- related risks: advancement and operational framework. **Romagnoli F.**, Fontanella Pisa P.; Shanko A.
- Co-design processes towards new approaches in integrated planning for DRR and CCA policies: methods, tools, and responses in the different phases of risk. Airoidi, F., Corradi, E., Cozza, C., Frattari, C., **Vigotti, F.**
- Toward a multi-criteria analysis tool for evaluating the effectiveness of risk reduction strategies within a multi-risk framework. Rubino A., Caporale D., Balingit A.R., Frattari C., Cozza C., Mele D., Molinari D., Ottonelli D., Corradi E., Castelli F., Romagnoli F., Frascini F., Vigotti F., Airoidi F., Scandolo G., Padovan G., Cetara L., Bindi M., Moretti M., **Asaridis P.**, Fontanella Pisa P., La Malva P., Muratori S., Bastiani T.

Comitato organizzatore

Colacicco R., Dellino P., Dioguardi F., Knuever M., Lapietra I., Lavecchia A., Lisco S., Liso I.S., Mele D., Neglia F., Rinaldi A., Rizzo A., Scardino G., Sulpizio R.