

## **Ing. Lauro Rossi**

1996 – 2001 : University of Genoa, Master of Engineering (MEng) in Environmental Engineering

2007 - Present : CIMA Research Foundation, Project Leader

Environmental Engineer with more than 20 years of relevant experience in Disaster Risk Reduction at national and international level, with special focus on flood risk assessment and Early Warning System (EWS). As EWS Program Director, he coordinates CIMA Innovation, Development and Implementation of Early Warning Systems in different contexts and for different hazards (floods, droughts, wildfires).

He has a long record of successful implementations of research and operational projects, as well as complex international DRR projects mainly in Africa, Latin America and Caribbean.

Consolidated experience in building consensus, partnership and negotiation with governments, UN system and international investment banks for the implementation of projects at regional and country scale.

Active participation as invited speaker in international conferences and author of papers in international refereed journals, scientific reports and book chapters.

### Recent Publications

Avanzi, F; Gabellani, S; Delogu, F; Silvestro, F; Pignone, F; Bruno, G; Pulvirenti, L; Squicciarino, G; Fiori, E; Rossi, L; Puca, S; Toniazzo, A; Giordano, P; Falzacappa, M; Ratto, S; Stevenin, H; Cardillo, A; Fioletti, M; Cazzuli, O; Cremonese, E; Di Cella, UM; Ferraris, L. IT-SNOW: a snow reanalysis for Italy blending modeling, in situ data, and satellite observations (2010-2021), EARTH SYSTEM SCIENCE DATA, 2023, 15, 2, 639-660, <http://dx.doi.org/10.5194/essd-15-639-2023>

De Angeli, S; Malamud, BD; Rossi, L; Taylor, FE; Trasforini, E; Rudari, R. A multi-hazard framework for spatial-temporal impact analysis, INTERNATIONAL JOURNAL OF DISASTER RISK REDUCTION, 2022, 73, 102829, <http://dx.doi.org/10.1016/j.ijdr.2022.102829>

Silvestro, F; Rossi, L; Campo, L; Parodi, A; Fiori, E; Rudari, R; Ferraris, L. Impact-based flash-flood forecasting system: Sensitivity to high resolution numerical weather prediction systems and soil moisture, JOURNAL OF HYDROLOGY, 2019, 572, 388-402, <http://dx.doi.org/10.1016/j.jhydrol.2019.02.055>

Arrighi, C; Rossi, L; Trasforini, E; Rudari, R; Ferraris, L; Brugioni, M; Franceschini, S; Castelli, F. Quantification of flood risk mitigation benefits: A building-scale damage assessment through the RASOR platform, JOURNAL OF ENVIRONMENTAL MANAGEMENT, 2018, 207, 92-104, <http://dx.doi.org/10.1016/j.jenvman.2017.11.017>

Marras, I; Fiori, E; Rossi, L; Parodi, A. Effects of the Representation of Convection on the Modelling of Hurricane Tomas (2010), ADVANCES IN METEOROLOGY, 2017, 1762137, <http://dx.doi.org/10.1155/2017/1762137>

Silvestro, F; Rebora, N; Rossi, L; Dolia, D; Gabellani, S; Pignone, F; Trasforini, E; Rudari, R; De Angeli, S; Masciulli, C. What if the 25 October 2011 event that struck Cinque Terre (Liguria) had happened in Genoa, Italy? Flooding scenarios, hazard mapping and damage estimation, NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, 2016, 16, 8, 1737-1753, <http://dx.doi.org/10.5194/nhess-16-1737-2016>

Rudari, R; Beckers, J; De Angeli, S; Rossi, L; Trasforini, E. Impact of modelling scale on probabilistic flood risk assessment: the Malawi case. In: Lang, M; Klijn, F; Samuels, P. (Eds.), Proceedings of the 3RD EUROPEAN CONFERENCE ON FLOOD RISK MANAGEMENT (FLOODRISK 2016) OCT 17-21, 2016, Lyon, FRANCE, 2016, 7, 4015, <http://dx.doi.org/10.1051/e3sconf/20160704015>

Koudogbo, FN; Rudari, R; Eddy, A; Trasforini, E; Rossi, L; Yesou, H; Beckers, J; Dell'acqua, F; Huber, M; Roth, A; Salvi, S; Ganas, A. EO DATA FOR RAPID RISK ANALYSIS WITH THE RASOR PLATFORM. In: Proceedings of the IEEE International Geoscience and Remote Sensing Symposium (IGARSS), JUL 26-31, 2015, Milan, ITALY, 4817-4820

Montrasio, L; Valentino, R; Corina, A; Rossi, L; Rudari, R. A prototype system for space-time assessment of rainfall-induced shallow landslides in Italy, NATURAL HAZARDS, 2014, 74, 2, 12631290, <http://dx.doi.org/10.1007/s11069-014-1239-8>

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