



Personal information

First name(s) / Surname(s)
Address(es)
Telephone(s)
Fax(es)
E-mail
Nationality
Date of birth
Gender

Lauro Rossi

Vico San Cristoforo 16/5 – 16126 Genoa, Italy
+3901923027261
+3901923027240
lauro.rossi@cimafoundation.org
Italian
23/12/1977
Male

Mobile: +39 3472769575

Work experience

Dates
Occupation or position held
Main activities and responsibilities

Since 2017

Program Director at CIMA Foundation and member of the Board of Director of Acrotec Foundation Environmental Engineer, expert on Disaster Risk Reduction (DRR), with special focus on Decision Support Systems for disaster management, he manages CIMA Research Foundation major projects linking IT technologies with earth science. As EWS Program Director, he coordinates CIMA activity for innovation, development and implementation of Early Warning System applied to different contexts. He is also the Development Coordinator of the "RASOR" platform for rapid multi-hazard risk assessment. Leader of international DRR projects, he has an extensive experience in developing new initiatives. He is also responsible for CIMA activities in Latin America and Caribbean. Member of the Board of Directors of Acrotec Foundation, an "in house" organization that support CIMA in ICT development.

Research activity on decision support system for natural risks management.

CIMA Research Foundation, Via Magliotto 2 – 17100 Savona. Tel. +39 019 230271

Name and address of employer
Type of business or sector

Applied research and operational services

Dates
Occupation or position held
Main activities and responsibilities

2011-2016

Project Leader project leader at CIMA Foundation and Head of environmental engineer sector at Acrotec srl

Leader of international DRR projects aimed to improve technical capacities and strengthen institutional and operational framework in also challenging contexts in South America, Caribbean, Middle East. He was also the Development Coordinator of the "RASOR" platform for rapid multi-hazard risk assessment. Team leader for the design and technological development of several ICT platforms for DRR: "Dewetra", weather-related risk prediction and prevention operationally used by the Italian Civil Protection; "Opera", for use of satellite imagery in flood risk management, funded by the Italian Space Agency. Author and co-author of several papers and international conference proceedings on Early Warning Systems and impact assessment.

Name and address of employer
Type of business or sector

CIMA Research Foundation, Via Magliotto 2 – 17100 Savona. Tel. +39 019 230271

Applied research and operational services

Dates
Occupation or position held
Main activities and responsibilities

2002-2010

Head of environmental engineer sector at Acrotec srl. Acrotec was ITC spin-off company of CIMA Foundation which became an in-house Foundation controlled by CIMA in 2017.

Project preparation and management, design of Early Warning and Decision Support System at national, regional, district and municipal levels, design of IT platform for massive use of satellite imagery in civil protection activities, High Level Co-Designer of MIKE-DRiFt rainfall-runoff model commercialized by the Danish Hydraulic Institute.

Name and address of employer
Type of business or sector

Acrotec srl, Via Magliotto 2 – 17100 Savona. Tel. +39 019 2303917

Applied research and operational service

Education and training

Dates
Title of qualification awarded

1996-2002

Master Degree in Environmental Engineering

Principal subjects/occupational skills covered	MS Thesis developed within the Leonardo International Program in France Thesis Title: "Re-thinking the Var river training in Nice" In cooperation with Université de Nice-Sophia Antipolis (France) Vrije Universiteit Brussel (University) Pleinlaan 2, 1050 Brussel (Belgium)																																																		
Name and type of organisation Level in national or international classification	Università degli studi di Genova (Italy) ISCED 5																																																		
Dates	2000-2001																																																		
Title of qualification awarded	-																																																		
Principal subjects/occupational skills covered	InterUniversity Programme in WATER Resources Engineering within the Erasmus/Socrates International Program																																																		
Name and type of organisation providing education and training	Vrije Universiteit Brussel (University) Pleinlaan 2, 1050 Brussel (Belgium)																																																		
Level in national or international classification	ISCED 5																																																		
Other language(s) Self-assessment <i>European level (*)</i>	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>C1</td> <td>Proficient user</td> <td>C1</td> <td>Proficient user</td> <td>C1</td> <td>Independent user</td> <td>C1</td> <td>Proficient user</td> <td>C1</td> <td>Proficient user</td> </tr> <tr> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> </tr> <tr> <td>B1</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> </tr> </tbody> </table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				C1	Proficient user	C1	Proficient user	C1	Independent user	C1	Proficient user	C1	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
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(*) [Common European Framework of Reference for Languages](#)

Additional information

RELEVANT PROJECTS AND ACTIVITIES:

December 2017- December 2018. Project deputy leader of "Building Disaster Resilience to Natural Hazards in Sub-Saharan African Regions, Countries and Communities", Grant Agreement with UNISDR (UNISDR/GR/2017/015). The project aims at generating floods and droughts risk profile for 16 sub-Saharan countries in present and evolving climate and delivering one-week workshop in each country.

December 2017 – June 2018. Coordinator of the project "RASOR Platform Training and Implementation of Pilot in Barbados and Haiti" in the framework of the "Expanded Weather and Climate Forecasting and Innovative Product and Service Development and Delivery in the Caribbean" financed by Caribbean Development Bank.

February 2016 – October 2016. Coordinator of the project "Implementation of a real-time integrated system for flood risk forecasting, monitoring and early-warning in the Rio Beni (Bolivia) river watershed" in the framework of the Action: "Strengthening of community resilience to floods in Beni and Marmoré rivers" funded by the European Commission, Directorate-General Humanitarian Aid and Civil Protection (ECHO) and executed by World Vision Deutschland.

July 2014 – May 2015. Coordinator of the project: "Establishment of Sustainable Natural Resources Management Platform and Early warning system" implemented for the National Council for Scientific Research (CNRS-Lebanon), in the framework of the "Regional Coordination on Improved Water Resources Management and Capacity Building" initiative, funded by World Bank/GEF.

December 2013 – July 2016. Development coordinator of "RASOR" IT platform for rapid multi-risk assessment within the European Commission FP7 - Rapid Analysis and Spatialisation of Risk – (RASOR) research project (<http://www.rasor-project.eu>).

May 2013 – July 2013. Reviewer of legal and institutional framework of Civil Protections of Eastern European Countries, in the framework of the PPRD-EAST (Programme for the Prevention, Preparedness and Response to Man-made and Natural Disasters in the ENPI East Region), funded by European Commission, DG-ECHO.

March 2012 – April 2013. Coordinator of the project "Implementation of a real-time integrated system for risk forecasting, monitoring and early-warning of natural disasters in Bolivia" in the framework of the "Emergency Initiative to assist communities affected by La Niña and to reduce the risk of natural disasters" AID 9507 (OSRO/BOL/103/ITA) funded by the Italian Ministry of Foreign Affairs and executed by The Food and Agriculture Organization of the United Nations (FAO).

October 2010 – December 2013. Responsible for Early Warning and Decision Support System within

the 3 years project "Enhancing Resilience to Reduce Vulnerability in the Caribbean", financed through a donation by the Italian Ministry of Foreign Affairs, executed by United Nations Development Programme (UNDP) and implemented by the Caribbean Institute for Meteorology and Hydrology.

October 2010 – December 2011. Co-responsible for the Lebanese project "Strengthening the National framework to mitigate Rural-Forest Fire Risk" financed by the Ministry of Foreign Affairs, with the support of the Italian Cooperation and the Embassy of Italy in Beirut, and implemented by CIMA Foundation on Behalf of the Italian Department of Civil Protection.

February 2009 – May 2012 Lecturer for international cooperation projects (Albania, Lebanon, Caribbean, Venezuela): ICT system for data exchange and decision support in Civil Protection.

February – May 2009. Member of technical Italo-Venezuelan commission in the framework of CIMA Foundation and Venezuela Government contract: CENAPRAD – Activities of preparedness and training for Civil Protection Managers.

2008-2012. Co-designer of IT system of the pilot project "OPERA", which deals with the massive use of satellite imagery in every-day civil protection activities.

2007. Co-designer of a water resource management system for the combined purposes of civil protection and electricity production in "Valle d'Aosta" region.

2004-2007. Designer of a ICT platform for natural risk management and data exchange regional and national centers (23) of Civil Protection ("Centri Funzionali")

Since 2005. Developer of the Early Warning System at national level within the CIMA Foundation and National Civil Protection Department Contract: research and services for advances in flood forecast procedures and development of system for flood and forest fire forecasting and management.

2005. High level co-designer of MIKE-DRiFT rainfall-runoff model commercialized by DHI

SELECTED PUBLICATIONS AND CONFERENCE PARTICIPATION:

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, In *Journal of Environmental Management*, Volume 207, 2018, Pages 92-104, ISSN 0301-4797, <https://doi.org/10.1016/j.jenvman.2017.11.017>.

I. Marras, E. Fiori, L. Rossi, and A. Parodi, "Effects of the Representation of Convection on the Modelling of Hurricane Tomas (2010)," *Advances in Meteorology*, vol. 2017, Article ID 1762137, 14 pages, 2017. doi:10.1155/2017/1762137.

F. Silvestro, N. Rebora, L. Rossi, D. Dolia, S. Gabellani, F. Pignone, E. Trasforini, R. Rudari, S. De Angeli, C. Masciulli. "What if the 25 October 2011 event that struck Cinque Terre (Liguria) had happened in Genoa, Italy? Flooding scenarios, hazard mapping and damage estimation", *Nat. Hazards Earth Syst. Sci.*, 16, 1737-1753, 2016, doi:10.5194/nhess-16-1737-2016.

F. N. Koudogbo, J. Duro, L. Rossi, R. Rudari, A. Eddy, "Multi-hazard risk analysis using the FP7 RASOR Platform – Proc. SPIE 9239, Remote Sensing for Agriculture", *Ecosystems, and Hydrology XVI*, 92390J (21 October 2014); DOI: 10.1117/12.2067444

L. Montrasio, R. Valentino, G.L. Losi, A. Corina, L. Rossi, R. Rudari, "A prototype system for space-time assessment of rainfall-induced shallow landslides in Italy" – *Natural Hazard*, June 2014. DOI: 10.1007/s11069-014-1239-8; Print ISSN: 0921-030X; Online ISSN: 1573-0840

R. Rudari, L. Rossi, F. Siccardi, P. Fiorucci, M. Massabò, D. Miozzo, N. Rebora, E. Trasforini, "Strengthening the eastern region's institutional and legislative frameworks, EU-funded Programme for the Prevention, Preparedness and Response to Man-made and Natural Disasters in the ENPI East Region (PPRD East)", January 2014. Available on-line at: http://euroeastcp.eu/assets/files/Publications/Technical%20Report%204_Strengthening%20the%20East%20Region's%20Institutional%20and%20Legislative%20Frameworks%20FINAL%20JAN2014.pdf

L. Montrasio, R. Valentino, G.L. Losi, A. Corina, L. Rossi, R. Rudari, "Space-Time Hazard Assessment of Rainfall-Induced Shallow Landslides", in *Landslide Science and Practice*, Volume 4: Global Environmental Change, Margottini, Claudio; Canuti, Paolo; Sassa, Kyoji (Eds.), 2013, XVII, p. 283-294, ISBN 978-3-642-31337-0

G. Boni, L. Campo, F. Caparrini, F. Castelli, L. Ferraris, L. Rossi "Impact Of Satellite-Based Soil

Moisture Index On Hydrological Simulation For Floods Prediction” In proceeding of: 2010 IEEE International Geoscience and Remote Sensing Symposium, 01/2010.

G. Boni, L. Campo, F. Caparrini, F. Castelli, L. Ferraris, L. Rossi, R. Rudari
“Use of soil moisture monitoring at national scale with assimilation of satellite products for the operational flash-flood forecast of the Italian civil protection” - European Geosciences Union General Assembly 2008 - Vienna, Austria, 13–18 April 2008. Geophysical Research Abstracts, Vol. 10, EGU2008-A-08109, 2008 SRef-ID: 1607-7962/gra/EGU2008-A-08109

G. Boni, L. Campo, F. Caparrini, F. Castelli, L. Ferraris, L. Rossi, R. Rudari “Operational regional-scale soil moisture monitoring with assimilation of satellite LST” -International Workshop on the Retrieval and Use of Land Surface Temperature: Bridging the Gaps. NOAA’s National Climatic Data Center (NCDC), Asheville, 7-9 April 2008

L.Rossi, Bertolotto E., Boni G. , Ferraris L., C. Versace “What about uncertainty in discharge data and hydraulic modelling within flood forecast chains?” - European Geosciences Union General Assembly 2007 - Vienna, Austria, 15–20 April 2007 -Geophysical Research Abstracts, Vol. 9, 06892, 2007 SRef-ID: 1607-7962/gra/EGU2007-A-06892

A.Besio, A.Burastero, F.Pintus, L.Rossi, C. Versace “STORM3: a new flood forecast management and monitoring system in accordance with the recent Italian national Directive” - European Geosciences Union 6th Plinius Conference on Mediterranean Storms “Catching Storms in the Mediterranean” - Published on Advances in Geosciences, 2, 309–311, 2005 SRef-ID: 1680-7359/adgeo/2005-2-309 European Geosciences Union, 2005.