

PERSONAL INFORMATION

Roberto COSCARELLI

Research Institute for Geo-Hydrological Protection (IRPI - CNR)
87036 Cosenza, Italy



[REDACTED]



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<https://www.irpi.cnr.it/en/staff-details/?ids=100>

Sex male | Date of birth [REDACTED] Nationality Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input checked="" type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- 01/12/2018 - nowadays **Responsible of the IRPI Office of Cosenza**
Research Institute for Geohydrological Protection - IRPI CNR, Via Cavour 4-6 87036 Rende (CS) - <https://www.irpi.cnr.it/>
- 2020 - nowadays **Member of Research Evaluation Group**
ANVUR – National Agency for Evaluation of Universities and Research
Member of GEV04 (Evaluation Group) for VQR (Evaluation of Research Quality) 2015-2019
- 01/01/2019 - 31/12/2019 **President of the Territorial Research Area of Cosenza of CNR**
Via Cavour 4-6 87036 Rende (CS) <http://areacs.cnr.it/>
- 2020 - nowadays **Member of Steering Committee**
University of Calabria
Teaching Courses in the Department of Civil Engineering
- 2018 - nowadays **Member of Working Group**
CNR Department “Earth system science and environmental technologies” - Rome
Working Group on “Global Change” Strategic Area – Representative member of IRPI
- 2017 - nowadays **Member of Teaching Committee**
University of Calabria
PhD in “Science and Engineering of Environment, Buildings and Energy (S.I.A.C.E.)
- 2006 - 2010 **Scientific Collaboration**
CAMILAB - Laboratory for Environmental Maps and Hydrogeological Modelling – University of Calabria
Coordinator of the Working Group for the Convention between the University of Calabria and the National Department of Civil Protection, regarding the application of forecasting models of landslide and flood events.
- 02/04/2001 – nowadays **Level III Researcher**
Research Institute for Geohydrological Protection - IRPI CNR, Via Cavour 4-6 87036 Rende (CS) - <https://www.irpi.cnr.it/>
- **Responsibilities and Membership of Research Groups:**
One of the Principal Investigators of the 3-years Research Project “INDECIS – Integrated approach for the development across Europe of user oriented climate indicators for GFCS high-priority sectors: agriculture, disaster risk reduction, energy, health, water and tourism” in the ambit of the “ERA4CS Joint Call on Researching and Advancing Climate Services Development - Topic B)” – Coordinator: Enric Aguillar (University Rovira I Virgili – Tarragona)
- Scientific Responsible for the CNR-IRPI of the 2-years Project of Research and Development “SMoRI-Smart Monitoring of basins subject to high geohydrological risk” in the ambit of POR CALABRIA FESR-FSE 2014-2020 – ASSE I Promozione della ricerca e dell’Innovazione, Obiettivo Specifico 1.2, Azione 1.2.2 – Coordinator: SIRFIN S.p.A.
- Member of the Research Group of the 30-months Project “OT4CLIMA – Development of Earth Observation Innovative Technologies for the study of Climate Change and its Impact on Environment and Territory” in the ambit of PON “RICERCA E INNOVAZIONE” 2014 - 2020 – D.D. 13/7/2017 n.

1735 – Coordinator: CNR

Member of the Research Group of the 24-months Project “From population risk perception to social vulnerability in coastal areas subject to climate change: a proposal for risk management strategies in two Mediterranean regions” in the ambit of the “Bilateral Agreement between CNR and University of Malta (UM)”.

Member of Research Group of the Research Project “Reconciling precipitation with runoff: the role of understated measurement biases in the modelling of hydrological processes” funded by MIUR (PRIN 2015) – Coordinator: University of Genoa.

Member of Research Group of the 2-years Project of Research and Development “RMS – FILIERA. Risk Management System and Chain for Management of Geo-hydrological Risk” in the ambit of POR CALABRIA FESR-FSE 2014-2020 – ASSE I Promozione della ricerca e dell’Innovazione, Obiettivo Specifico 1.2, Azione 1.2.2 – Coordinator: SETEGE

Scientific Coordinator of the Research Project “ISPARIDE – Identification and estimate of the parameters for evaluating desertification risk” (may 2004 – May 2007), funded by the Italian Ministry of Instruction, University and Research

Member of the Working Group in the Scientific Convention between the CNR IRPI and the State Commissioner (Civil Protection Ordinance no. 3862/2010) for scientific and technical advice relative to studies, surveys and monitoring in the Municipality of Maierato and in the lanò hamlet of the Municipality of Catanzaro (Calabria - Italy)

One of the Coordinators of the Science Team on “Drought and Water Resources” of HYMEX (Hydrological cycle in the Mediterranean EXperiment) European Group.

Member of the Working Group in the activities of CNR IRPI “Study and experimentation of methodologies and techniques for the mitigation of landslide risk” - lots 1 and 2 - (POR CALABRIA 2000-2006 - Asse 1 – Risorsa naturali Misura 1.4 - Sistemi insediativi Azione 1.4.c – Azioni di studio, programmazione, sperimentazione, monitoraggio, valutazione e informazione finalizzati alla predisposizione e gestione di politiche integrate d’intervento di difesa del suolo);

Member of the Working Group for the Scientific Collaboration (2003-2004) between CNR-IRPI and Regional Agency for Development and Services in Agriculture (ARPACAL) regarding the theme: “Evaluation of the Erosion Risk in Calabria”

Scientific Responsible for CNR-IRPI in the research project “MIRASAT – Methodology for estimating risk indicators through satellite remote sensing”, funded by Regione Calabria. Leader partner: EPSILON Italia.

- **Research activities** deal with: rainfall trends, hydrologic modelling, analysis of long drought periods, temporal forecasting of landslides using archive information and multi-temporal inventory maps, teleconnection between rainfall and global climatic indices, analysis of the causes triggering high impact instability phenomena, risk perception, soil erosion, desertification.

10/11/1997 – 01/04/2001

Engineer Director (VIII level)

Department of Civil Protection - Chairmanship of the Italian Minister Council - Rome

EDUCATION AND TRAINING

02/10/1990

Degree in in Civil Engineering for the Soil Conservation and the Territorial Planning (section Hydraulics) with vote 110 and praise/110

- University of Calabria, via Pietro Bucci 87036, Arcavacata di Rende, Cosenza (Italy)
Hydraulics, Hydrology, Applied geology

WORK ACTIVITIES

Editorial activity

Member of the Editorial Board of the International Journal “Advances in Meteorology” - Hindawi Limited, London (UK).

Reviewer for several ISI Scientific Journals: Journal of Hydrology, Theoretical and Applied Climatology, Atmospheric Research, International Journal of Climatology, Physics and Chemistry of the Earth, Stochastic Environmental Research and Risk Assessment, Water, etc.

Grants Research Project "INDECIS – Integrated approach for the development across Europe of user oriented climate indicators for GFCS high-priority sectors: agriculture, disaster risk reduction, energy, health, water and tourism" in the ambit of the EU "ERA4CS Joint Call on Researching and Advancing Climate Services Development - Topic B)" funded by EC for about 150.000 Euro (CNR task)

Research Project "ISPARIDE – Identification and estimate of the parameters for evaluating desertification risk" (may 2004 – May 2007), funded by the Italian Ministry of Instruction, University and Research for about 142.000 Euro

Others National Scientific Enablement (Competition 2016-2017) in "Hydraulics and Hydraulic Construction" to ASSOCIATE PROFESSOR.

ADDITIONAL INFORMATION

Publications total number of publications in peer-review journals: 63 (SCOPUS)
total number of citations: 1890 (SCOPUS March 31st, 2024)
H index: 24 (SCOPUS May 31st, 2024)

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56017261600>

Orcid: <https://orcid.org/0000-0002-2779-1100>

Some publications:

- Caloiero T., Coscarelli R., Ferrari E., Assessment of seasonal and annual rainfall trend in Calabria (southern Italy) with the ITA method. Journal of Hydroinformatics, 22(4), pp. 738–748, 2020. DOI: 10.2166/hydro.2019.138. ISSN: 14647141
- Caloiero T., Coscarelli R., Gaudio R., Spatial and temporal variability of daily precipitation concentration in the Sardinia region (Italy). International Journal of Climatology, 39, 5006–5021, 2019. DOI: 10.1002/joc.6123. ISSN: 0899-8418
- Caroletti G.N., Coscarelli R., Caloiero T., Validation of satellite, reanalysis and RCM data of monthly rainfall in Calabria (Southern Italy). Remote Sensing, 11, 1625, 2019. DOI: 10.3390/rs11131625. ISSN: 2072-4292
- Antronico A., Coscarelli R., De Pascale F., Condino F., Social perception of geo-hydrological risk in the context of urban disaster risk reduction: a comparison between experts and population in an area of Southern Italy. Sustainability, 11(7), 2061, 2019. DOI: 0.3390/su11072061. ISSN 2071-1050
- Sirangelo B., Caloiero T., Coscarelli R., Ferrari E., A combined stochastic analysis of mean daily temperature and diurnal temperature range. Theoretical and Applied Climatology, 135, 1349–1359, 2019. DOI: 10.1007/s00704-018-2441-5. ISSN: 0177-798X
- Caloiero T., Coscarelli R., Ferrari E., Application of the Innovative Trend Analysis Method for the Trend Analysis of Rainfall Anomalies in Southern Italy. Water Resources Management, 32, 4971–4983, 2018. DOI: 10.1007/s11269-018-2117-z. ISSN: 0920-4741
- Gullà G., Aceto L., Antronico L., Borrelli L., Coscarelli R., Perri F. (2018) A smart geotechnical model in emergency conditions: a case study of a medium-deep landslide in Southern Italy. Engineering Geology, 234 (21), 138-152, 2018. DOI: 10.1016/j.enggeo.2018.01.008. ISSN: 0013-7952
- Sirangelo B., Caloiero T., Coscarelli R., Ferrari E., Stochastic analysis of long dry spells in Calabria (Southern Italy). Theoretical and Applied Climatology, 127, 711–724, 2017. DOI: 10.1007/s00704-015-1662-0. ISSN: 0177-798X
- Sirangelo B., Caloiero T., Coscarelli R., Ferrari E., A stochastic model for the analysis of maximum daily temperature. Theoretical and Applied Climatology, 130, 275-289, 2017. DOI: 10.1007/s00704-016-1879-6. ISSN: 0177-798X
- Antronico L., Coscarelli R., De Pascale F., Muto F., Geo-hydrological risk perception: a case study in Calabria (Southern Italy). International Journal of Disaster Risk Reduction, 25, 301-311, 2017. DOI: 10.1016/j.ijdrr.2017.09.022. ISSN: 2212-420
- Caloiero T., Buttafuoco G., Coscarelli R., Ferrari E., Spatial and temporal characterization of climate at regional scale using homogeneous monthly precipitation and air temperature data: An application in Calabria (southern Italy). Hydrology Research, 46(4), pp. 629–646, 2015. DOI: 10.2166/nh.2014.022. ISSN: 19989563

31/05/2024

