

MAURIZIO POLLINO



ENEA - Italian National Agency for New Technologies. Energy and Sustainable Economic Development

Staff Scientist

STITUTIONAL ROLES

Head of ENEA Laboratory for the Analysis and Protection of Critical Infrastructures (APIC)

MAIN RESEARCH INTERESTS

Geomatics, Decision Support Systems, Risk analysis and mapping

ACADEMIC CAREER

Civil Engineer. PhD in Agroforestry and Environmental Engineering.

From 2000 to 2006 Researcher Assistant at ENEA. From 2006 Staff Scientist at ENEA.

From 2003 to 2008, Adjunct Professor of "Geographical Information Systems" (University of Rome "Sapienza").

From 2019 Professor at the 1st level University Master in post-catastrophe technical-administrative management of local authorities (University of L'Aquila).

Main interests in Geomatics (Remote Sensing and GIS) applied to environmental studies and analyses. Involved in R&D activities in the fields of Geomatics, Decision Support Systems (DSS) and Risk Analysis:

- Design and development of GIS-based DSS for natural hazards multi-risk assessment and damage scenarios elaboration.
- Design and development of the CIPCast ("Critical Infrastructure Protection risk analysis and forecast") DSS platform.
- Remote Sensing and GIS analyses and studies for Land Cover/Land Use changes, Land monitoring and planning, Landscape metrics and indices, Spatial analysis
- Geomatics applied to Critical Infrastructure Protection.

Scientific responsible of ENEA activities in the framework of different R&D Projects (National/EU-funded) and collaboration agreements, among which:

- 2018-2021. RAFAEL Project – "System for Risk Analysis and Forecast for Critical Infrastructure in the ApenninEs dorsal Regions". MIUR PON 2014-2020 (PNR 2015-2020).
- 2021-2022. MOST Project "Strategic Monitoring of Critical Infrastructures".
- 2018-2023. SCIRES Project – "Supporting Critical Infrastructure REsilience from Space". ESA (European Space Agency) Invitation to Tender (ITT) for Space-based Services to support resilient and sustainable Critical Infrastructure.
- 2015-2017. World Bank "Selection #1187526 Afghanistan - Multi-hazard risk assessment" and "Training and Capacity Building for Afghanistan GeoNode Platform Hosting a Multi-Hazard Risk Assessment".

ECDL GIS Certified Examiner. Responsible of the ECDL-GIS ENEA Test Center (2017-2019). Member of the Reviewer Board of the MDPI Remote Sensing Journal. Member of the Topical Advisory Panel of the MDPI ISPRS International Journal of Geo-Information.

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Guest Editor of various Special Issues (MDPI - ISPRS International Journal of Geo-Information, MDPI – Land, MDPI – Sustainability).

Reviewer for many international Journals. Organiser and Co-Chair of different international Workshops.

Member of the Technical Program Committee of the International Conference on Advanced Geographic Information Systems, Applications, and Services – GEOProcessing (2012-2016).

Member of the Programme Committee of the International Conference on Computational Science and Its Applications (ICCSA 2011-2022).

Green Energy Award 2014 (Esri Italy) for: "A GIS Based Methodology in Renewable Energy Sources Sustainability", International Journal of Agricultural and Environmental Information Systems 5(3), 2014.

Author and co-author of more than 100 scientific publications and contribution to Conferences, among which 54 publications in peer-review journals indexed by Scopus (total number of citations: 557, H index: 12)