Paolo Mazzetti

Date of birth: 21/08/1967

Nationality: Italian

CONTACT

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(Work)

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WORK EXPERIENCE

01/03/2024 – CURRENT Montelibretti (RM), Italy

Acting Director of CNR-IIA Institute of Atmospheric Pollution Research - National Research Council of Italy

01/03/2018 – 29/02/2024 Sesto Fiorentino (FI), Italy

Head of the Division of Florence of CNR-IIA Institute of Atmospheric Pollution Research - National Research Council of Italy

31/05/2011 – CURRENT Sesto Fiorentino (FI), Italy

Research scientist Institute of Atmospheric Pollution Research - National Research Council of Italy

- Research project management
- Research activity in geospatial information and knowledge modeling
- Design of cyber-infrastructures for multidisciplinary applications

14/07/2005 – 30/05/2011 Tito Scalo (PZ), Italy

Research scientist Institute of Methodology for Environmental Analysis - National Research Council of Italy

- Research project management
- Research activity in geospatial information and knowledge modeling;
- Design of cyber-infrastructures for multidisciplinary applications;
- Grid technology

31/05/1995 – 13/07/2005 Prato

Research consultant University of Florence, CNR, Politecnico di Milano, PIN

Research activity in microwave remote sensing (weather radar); geospatial data sharing

31/05/1995 – 29/04/2010 Florence, Italy

Adjunct Professor University of Florence

- Professor of "Telematics" class for the degree in Information Engineering
- Supervisor of more than 40 thesis for the degree in Information Engineering

EDUCATION AND TRAINING

08/2016 – 12/2021

Degree in Logic, Philosophy and History of Science University of Florence

Field of study Philosophy and ethics │ **Final grade** cum laude │ **Thesis** 'It from Bit': il problema del rapporto tra informazione e realtà (in Italian) / 'It from Bit': issues in the relationship between information and reality

31/08/1986 – 19/12/1993 Florence, Italy

Degree in Electronic Engineering University of Florence

Field of study Information and Communication Technologies | **Final grade** cum laude | **Thesis** Impiego del radar per la predizione dell'attenuazione e nell'osservazione di campi di precipitazione ad elevata dinamica (in Italian) / Use of radar for attenuation prediction and observation of highly dynamic precipitation fields

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening C2	**Spoken production** C2
Reading C2	**Spoken interaction** C2
Writing C2	

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office | Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Outlook | Zoom | Skype | Google Drive | Google Docs | Team-work oriented | Good listener and communicator | Organizational and planning skills | Internet user | Decision-making | Critical thinking | Gmail | Reliability | Responsibility | Research and analytical skills | Analytical skills | Python programming language

ADDITIONAL INFORMATION

Research Interests

CURRENT

Summary

Knowledge generation from Earth Observation, Digital ecosystems, Big Data, Open Science

Honours and awards

2017 Città di Firenze

"Fiorino d'argento" Awarded in the context of the Florence Academic Leader Programme 2017 (FALP 2017)

2014 Geospatial World

Geospatial World Innovation Award Member of the CNR-IIA working group awarded in section "Technology Innovation in Interoperability" for the "GEOSS Brokering Framework"

2011 ISESS

Best paper at the ISESS 2011 Author of the paper "Environmental Information Systems on the Internet - A Need for Change" awarded in 'eEnvironment and Cross-border Services in Digital Agenda for Europe' track

2008 EGEE

Best application demo at EGEE'08 Conference Author of the "G-RISICO: A Wild Fire Risk Assessment application running on an advanced Grid infrastructure" application

Networks and memberships

08/03/2023 – CURRENT

Chair of the European Chapter of the International Society for Digital Earth (ISDE) ISDE is an international organization principally promoting academic exchange, science and technology innovation, education, and international collaboration towards Digital Earth (http://www.digitalearth-isde.org/)

2021 – 2022

Agriculture of Data Core Group Member representing ERA-PLANET - European Research Area Network on Earth Observation

2018 – CURRENT

National Working Group on Land Degradation Neutrality Member

2018 – CURRENT

International Society for Digital Earth Council Member

2018 – CURRENT

GEOSS Infrastructure Development Task Team Principal Representative of Italy

2018 – 2022

GEO Programme Board Principal Representative of Italy

2017 – 2019 Geneva, Switzerland

GEOSS Expert Advisory Group Member

EuroGEOSS Coordination Group Representative of Italy

02/2016 – CURRENT Montelibretti (RM), Italy

Governing Board of CNR-IIA Member

2013 – CURRENT

Arctic Data Committee Representative of Italy

2013 – 2016 Vienna, Austria

Earth and Space Science Informatics (ESSI) Division of the European Geosciences Union (EGU) Deputy President

2013 – 2015

GEO Institutions and Development Implementing Board (IDIB) Member

2009 – 2011

GEOSS Evaluation Team on "Architecture and Data Management" Member

2009 – 2011 Tito Scalo (PZ), Italy

Governing Board of CNR-IMAA Member

Projects

01/09/2022 – 28/02/2027

HORIZON TRIGGER (SoluTions foR mItiGatinG climate-induced hEalth tReaths) PI for CNR-IIA

11/2021 – 12/2025

HIS-Central (Implementation of the central node of the Italian Hydrologic Information System Project Coordinator

31/10/2021 – 29/04/2025

H2020 I-CHANGE (Individual Change of HAbits Needed for Green European transition) Work package leader of "Observation integration and interoperability of data"

01/06/2022 – 31/12/2024

ESA DAB4GPP Project Coordinator

01/09/2022 – 29/02/2024

DIGITAL GREAT (The Green Deal Data Space Foundation and its Community of Practice) PI for CNR-IIA

31/12/2020 – 29/06/2023

LIFE20 NewLife4Drylands (Remote sensing oriented nature based solutions towards a new life for drylands) Project Coordinator

2015 – CURRENT

H2020 ERA-PLANET (The European network for observing our changing planet)
- Until February 2018:
    - Work Package Leader of SMURBS "ERA-PLANET principles and KETs for interoperability";
    - Work Package Leader of GEOEssential "Interoperability, Data Sharing and Management development", "Knowledge Management services";
    - Work Package Leader of IGOSP "Interoperability, mid-stream and down-stream services";

- Since March 2018:
    - Coordinator of CNR-IIA-Firenze unit activities in ERA-PLANET and in the Transnational Projects SMURBS, GEOEssential, IGOSP, ICUPE;
    - Work Package Leader of ERA-PLANET "Strategic research policy development, coordination of European programs and supporting International Policies"
    - Member of the ERA-PLANET Steering Committee

2017 – 2019

ESA DAB4EDGE (GEO-DAB Support for European Direction in GEOSS Common Infrastructure Enhancements) Project Coordinator

2003 – 2006

P.O.N. Revilab (Potenziamento della rete ad alta velocità per l'interconnessione dei laboratori CNR-IMAA) Scientific and Technical Coordinator

2014 – 2019

H2020 ECOPOTENTIAL (Improving Future Ecosystem Benefits through Earth Observations) Until February 2018: Work Package Leader of "ECOPOTENTIAL Virtual Laboratory Platform";

Since March 2018: Coordinator of CNR-IIA-Firenze unit activities in the project

2013 – 2017

CIP-PSP ENERGIC-OD (European NEtwork for Redistributing Geospatial Information to Communities - Open Data) Technical Coordinator

2012 – 2016

FP7 MED-SUV (MEDiterranean SUpersite Volcanoes) Task Leader of "Multidisciplinary Interoperability Infrastructure"

2012 – 2015

FP7 IASON (Fostering sustainability and uptake of research results through Networking activities in Black Sea & Mediterranean areas) Work package leader of "Assessment of existing and on-going research efforts in the Mediterranean and Black Sea"

2011 – 2015

MIUR PNR ND-SoS-Ina (NextData System of Systems Infrastructure) Scientific responsible for CNR-IIA Unit

2011 – 2015

ESA Prod-Trees (Enriching EO Ontology Services Using Product Trees) Work Package Leader of "User requirement" and "Enhancement specification"

2010 – 2014

FP7 EARTHSERVER (European Scalable Earth Science Environment) Coordinator of Networking Activities

2010 – 2013

FP7 ENVIROFI (Environmental Observation Web in Future Internet) Task Leader of "Stakeholder Analysis: Communities, Architectures and Technologies"

2009 – 2013

FP7 UncertWeb (The uncertain enabled model web) Task Leader of "Discovery and access methodology and services"

2009 – 2012

FP7 EGIDA (Coordinating Earth and Environment projects for GEOSS) Work package Leader of "EGIDA Methodology and Use-Cases"

2008 – 2011

FP7 G-MOSAIC (Gmes for Management of Operations, Situation Awareness and Intelligence for regional Crises) Activity coordinator of "Standards for Earth Observation data"

2007 – 2011

FP7 SAFER (Services and Applications For Emergency Response) Activity Coordinator of "Gateway service network develolopment"

2005 – 2008

FP6 CYCLOPS (CYber-Infrastructure for CiviL protection ProcedureS) Work package Leader of "Research and Innovation strategies definition"

Publications

Bibliometric Indicators

Scopus) h-index: 19; citations: 1367
Web of Science) h-index: 19; citations: 1217; Author Impact: 80th percentile
Google Scholar) h-index: 23; citations: 2285

Publications list

Publication list available at Google Scholar (https://scholar.google.it/citations?user=i9Bn80IAAAAJ&hl=it)

Most relevant publications:

- P. Mazzetti *et al.*, "Knowledge formalization for Earth Science informed decision-making: The GEOEssential Knowledge Base," *Environmental Science & Policy*, vol. 131, pp. 93–104, May 2022, doi: 10.1016/j.envsci.2021.12.023.
- S. Nativi, P. Mazzetti, and M. Craglia, "Digital Ecosystems for Developing Digital Twins of the Earth: The Destination Earth Case," *Remote Sensing*, vol. 13, no. 11, p. 2119, May 2021, doi: 10.3390/rs13112119.
- G. Giuliani, B. Chatenoux, A. Benvenuti, P. Lacroix, M. Santoro, and P. Mazzetti, "Monitoring land degradation at national level using satellite Earth Observation time-series data to support SDG15–exploring the potential of data cube," *Big Earth Data*, pp. 1–20, 2020.
- G. Giuliani *et al.*, "Knowledge generation using satellite earth observations to support sustainable development goals (SDG): A use case on Land degradation," *International Journal of Applied Earth Observation and Geoinformation*, vol. 88, p. 102068, Jun. 2020, doi: 10.1016/j.jag.2020.102068.
- S. Nativi, P. Mazzetti, and M. Craglia, "A view-based model of data-cube to support big earth data systems interoperability," *Big Earth Data*, vol. 1, no. 1–2, pp. 75–99, Dec. 2017, doi: 10.1080/20964471.2017.1404232.
- P. Baumann *et al.*, "Big data analytics for earth sciences: the EarthServer approach," *International Journal of Digital Earth*, vol. 9, no. 1, pp. 3–29, 2016.
- C. Granell *et al.*, "Future Internet technologies for environmental applications," *Environmental Modelling & Software*, vol. 78, pp. 1–15, 2016.
- S. Nativi, P. Mazzetti, M. Santoro, F. Papeschi, M. Craglia, and O. Ochiai, "Big data challenges in building the global earth observation system of systems," *Environmental Modelling & Software*, vol. 68, pp. 1–26, 2015.
- S. Nativi, P. Mazzetti, and G. N. Geller, "Environmental model access and interoperability: The GEO Model Web initiative," *Environmental Modelling & Software*, 2012, doi: https://doi.org/10.1016/j.envsoft.2012.03.007.
- L. Bastin *et al.*, "Managing uncertainty in integrated environmental modelling: The UncertWeb framework," *Environmental Modelling & Software*, vol. 39, pp. 116–134, 2013, doi: 10.1016/j.envsoft.2012.02.008.
- D. Havlik *et al.*, "From sensor to observation web with environmental enablers in the future internet," *Sensors*, vol. 11, no. 4, pp. 3874–3907, 2011.