

## Short CV. Dr. Mario Montopoli

**Dr. Mario Montopoli** received the Laurea degree in electronic engineering from the University of L'Aquila, L'Aquila, Italy, in 2004 and the Ph.D. degree in radar meteorology from the University of Basilicata, Potenza, Italy, in 2008. In 2005, he joined the Center of Excellence CETEMPS as a Research Scientist on ground-based radar meteorology and microwave remote sensing. In 2006, he was a Research Assistant with the Department of Electrical Engineering and Information, University of L'Aquila. From October 2011 to 2013, he was a researcher at the Department of Geography, University of Cambridge, Cambridge, U.K. under the Marie Curie FP7 European program. From 2014 to 2015 he was with the Department of Information Engineering, Sapienza University of Rome, and an EuMetSat Visiting Scientist with the H-SAF facility. He is currently with the Institute of Atmospheric Sciences and Climate (ISAC), National Research Council of Italy (CNR), Rome as permanent researcher.

Dr. Montopoli has more than 15-year experience with Earth Observation techniques, including studies to improve retrieval algorithms of: i) liquid/solid precipitation related quantities using microwave radars ii) mass loading of ash as seen from active and passive microwave observations of volcanic emissions; iii) radio propagations parameters of path attenuation using radiative transfer routines.

Dr. Montopoli co-authored 71 peer-reviewed papers (15 as first author), 2 book chapters, and more than 70 extended abstracts on international conference proceedings.

Since 2014 he is Associate Editor for the Geoscience and Remote Sensing Letters edited by the Institute of Electrical and Electronics Engineers (IEEE).

In 2010 Dr. Montopoli was awarded for the best paper award within the European Radar conference (ERAD), Sibiu, Romania, 6-11 September, 2010.

Dr. Montopoli was principal investigator of two projects: *Fp7 project RASHCAST (n 273666)* on RADAR-based ASH monitoring and foreCASTing by integrating of remote sensing techniques and volcanic plume models; *cooperation NASA project NASAUnifiedWRF* on the use of GSDSU radiative transfer simulator. From Sept 2021, he is part of the mission advisory group of the ESA Earth explorer 11 mission "Wivern".

Dr Montopoli was a work package leader of eight other projects: FP7 project Futurevolc (n. 308377) on developing best practices for a supersite within volcanic emissions related risks; ESA project METAWAVE (ESTEC-21207/07/NL/HE) on Mitigation of Electromagnetic Transmission errors induced by Atmospheric Water Vapour Effects; ESA project RadioMetOP (n. 4000107890) on RadioMeteorological Operations Planner; ESA project RadioMetOP2 (n. 4000107890/13/D/EF) on RadioMeteorological Operations Planner2; FP7 project: Aphorism (n. 606738) on Advanced PRocedures for volcanIc and Seismic Monitoring. ESA project ESMO (N. ITT/1-6031/09/NL/NA) on European Student Moon Orbiter; FP7 project earthH2Observe (n. 603608) on the exploitation of unconventional observation sensor like SAR for rain precipitation; Transnational cooperative project between Italy and USA HiMetCom (FA9550-16-1-0446) on Exploiting High-frequency bands by radioMETeorological modeling and Sun-tracking microwave radiometry for satellite Communications and site diversity optimization;

More info can be found at:

- [WoS](#): Citations: 1,165; documents: 80; H-Index: 21

- [SCOPUS](#) Citations: 1640; documents: 125; H-Index: 26

- [SCHOLAR](#) Citations: 2231; documents: 260; H-Index: 28

- ORCID ID URL : <https://orcid.org/0000-0003-0099-0393>

- Personal web page : <http://www.isac.cnr.it/en/users/mario-montopoli>