



MEMBER PROFILE

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Study areas	
Countries / Regions	Italy, Germany / Europe

Topics of last three projects	
1	AESA antenna for radar applications
2	Low-cost maritime radar, S-band
3	Low-cost weather radar, X-band

	<u>Topics of last 10 publications</u>	<u>Publication links</u>
1	Zero-IF Radar Signal Processing	http://ieeexplore.ieee.org/document/7346068/
2	Identification of local high-resolution precipitation patterns	http://adsabs.harvard.edu/abs/2013AtmRe.119...81T
3	High Resolution Continuous Atmospheric Monitoring using MicroRadarNet	http://meetingorganizer.copernicus.org/EMS2011/EMS2011-771-1.pdf
4	Simulated and measured X-band radar reflectivity in mountainous terrain	http://www.tandfonline.com/doi/abs/10.1080/01431160701596149
5	High-resolution low-cost X-band weather radar network	http://meetingorganizer.copernicus.org/EMS2009/EMS2009-480.pdf
6	Networking of high-resolution weather micro radars to service tracking and forecasting of local precipitation patterns	http://adsabs.harvard.edu/abs/2010ems..confE.605T
7	Comparison of a severe convective event with a (distant) C-band radar and a (close) X-band radar	http://porto.polito.it/1955349/
8	Estimation of local high-resolution precipitation pattern and rainfall amount	https://core.ac.uk/display/11415607
9	Consequences of non-uniform beam filling when up- and down-scaling weather radar data	http://porto.polito.it/1720215/
10	Real-time data assimilation, visualization and storing	http://www.iiisci.org/journal/CV\$/sci/pdfs/P454999.pdf

Research interests in water

Climate & Water	Water in arid areas	Arctic water	Water cycle	Atmospheric water	Glaciers & Cryosphere					
Hydrological extreme events	Floods	Droughts	Ice phenomena							
Water flow	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porewater	Alluvial water			
Surface water	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	Rivers	Floodplains			
Ground water	Soil water	Karst water	Hydrogeology	Recharge						
Marine Environment	Coastal waters	Estuarian waters								
Aquatic habitats/ Ecosystems	Wetlands	Lakes	Peatlands	Rivers						
Water availability	Water utility	Water storage	Dams / Reservoirs	Water scarcity	Supply & Distribution	Water allocation	Water restrictions			
Modelling and GIS	Hydro GIS	Groundwater modelling	Surface water modelling	Remote sensing						
Water quality	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
Water & Health	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
Water & Energy	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
Water management/ policy	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
Water use	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	Water sustainability	Competing water use
Water Law & Economics	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
Socio-political aspects	Water history	Water wars	Water & Poverty	Access to water						