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Study areas

Countries **Italy, Germany**

Region **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

Envisioned activities in Commission

- attend/ organise meetings
- contribute to publications *
- read newsletter *
- joint research, collaboration *
- Other (please specify)

Research interests in water (select maximum 10)

Climate & Water	Hydrological extreme events	Water flow	Surface water	Ground water	Marine Environment	Aquatic habitats/ Ecosystems	Water availability
Water in arid areas	Floods	Catchment processes	Limnology	Soil water	Coastal waters	Wetlands	Water utility
Arctic water	Droughts	Run-off generation	Fluvial dynamics	Karst water	Estuarian waters	Lakes	Water storage
Water cycle	Ice phenomena	Groundwater-Surface water interactions	Continental scale processes	Hydrogeology		Peatlands	Dams / Reservoirs
Atmospheric water	X	Hyporheic processes	Dams / Reservoirs	Recharge		Rivers	Water scarcity
Glaciers & Cryosphere		Interstitial water	Sediments				Supply & Distribution
		Porwater	Rivers				Water allocation
		Alluvial water	Floodplains				Water restrictions

Modelling and GIS	Water quality	Water & Health	Water & Energy	Water management/ policy	Water use	Water Law & Economics	Socio-political aspects
Hydro GIS	Pollution	Water & Sanitation	Water-Energy nexus	Integrated Catchment management	Urban	Water trade	Water history
Groundwater modelling	Purification	Water & Food	Water for energy	Integrated water resource management	Agricultural	Virtual water	Water wars
Surface water modelling	Hydrochemistry	Waterborne diseases	Energy for water	Water loss	Mine water	Privatisation	Water & Poverty
Remote sensing	Treatment	Drinking water	Water, Food & Energy	Reticulation & Supply	Industrial	Water as public good	Access to water
	Desalination	Water purification		Transboundary water	Grey water	Right to water	
	Waste water				Green water	Bills & Laws	
	Sewage				Blue water	Affordability	
					Return water		
					Water sustainability		
					Competing water use		

Other (please specify)

other areas of interest

Research interests in water (supply 5 keywords)

Remote sensing

Weather radar

Radar calibration

Rain gauges

Tracking and nowcasting

Topics of last 10 publications

Publication links

Topics of last 10 publications	Publication links
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/2013AtnRe.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.iisci.org/journal/CVS/sci/pdfs/P454999.pdf