

[Andrea Monti Guarnieri](#), associate professor at *Politecnico di Milano* (Poli-MI), M.Sc. cum laude (1988) in electronic engineering, IEEE-member. He joined the Dipartimento di Elettronica, Informazione e Bioingegneria, first as assistant professor and as associate professor since 2002. In 2013 he received the national “habilitation” as full-professor. He has been teaching several courses on digital and statistical signal & image processing, telecommunications and RADAR.

Thirty years of professional activities in SAR systems design and processing, led him in 2003 to co-found [aresys](#), a Poli-MI spin-off, that he still serving as president. Aresys complements the most promising innovations introduced in his research activity at PoliMI by developing them into customized solutions involving RADAR and geophysical systems.

Prof. Monti Guarnieri current and past interests focus on processing and calibration of RADAR based systems: ground, airborne and spaceborne SAR, multi-baseline interferometric and MIMO configurations and in studying new systems and applications for remote sensing.

He has been leading ESA projects since ‘88, he has been a member of the ESA Quality Working Group for ERS and ENVISAT programs, he supported the commissioning phases for ENVISAT and SENTINEL-1, and he is cooperating with CONAE (Argentinean space agency) in the development of SAOCOM constellation.

From 2010 he is leader of an international consortium proposing a geosynchronous SAR.

GeoSTARE is a unique system capable of continuous earth observations with regional coverage, aiming at the generation of water vapor and deformation maps over land for civil protection, emergencies, weather forecasts, and security.

Prof. Monti Guarnieri co-authored over 150 [scientific publications](#), of which 40 international peer reviewed publications, ([H-Index 22, 2400 citations](#)); he was awarded three “Best Paper” in international symposia (IGARSS '89, EUSAR 2004, EUSAR 2012) and he is co-author of three patents, while other two are currently under registration. He is reviewer of journals in remote sensing, signal processing, image processing, geophysics, geodynamics and antennas and propagations, and he has been in many technical boards of SAR and RADAR conferences. He is currently member of Italian Space Agency (ASI) scientific and technical advisory.

