

Lorenzo Luini was born in Italy, in 1979. He received the Laurea Degree (cum laude) in Telecommunication Engineering in 2004 and the Ph.D. degree in Information Technology in 2009 (cum laude) both from Politecnico di Milano, Italy. He is currently Assistant Professor at DEIB (Dipartimento di Elettronica, Informazione e Bioingegneria).

Since 2004, his research activities have been relative to E.M. wave propagation through the atmosphere, both at radio and optical frequencies: physical and statistical modeling for E.M. propagation applications (e.g. attenuation due to rain/ice particles and expected performance of SatCom and terrestrial wireless links); remote sensing of atmospheric constituents using radiometric data; dimensioning of wireless terrestrial and SatCom (GEO, MEO, LEO) systems, also implementing Fade Mitigation Techniques (e.g. site/time diversity); performance evaluation of Free Space Optics Earth-space (to satellite or deep space probes) systems; impact of the atmosphere on Synthetic Aperture Radars (SAR); analysis of the performance of spaceborne GNSS receivers.

Lorenzo Luini also worked as a System Engineer in the Industrial Unit – Global Navigation Satellite System (GNSS) Department – at Thales Alenia Space Italia S.p.A.

He has been involved in several European COST projects, in the European Satellite Network of Excellence (SatNEx), as well as in several projects commissioned to the research group by the European Space Agency (ESA) and the USA Air Force Laboratory (AFRL).

Lorenzo Luini authored several contributions to international conferences and scientific journals (see <http://luini.deib.polimi.it/index.php/scientific-publications/>), for which he also serves as a reviewer (e.g. IEEE TAP - Transactions on Antennas and Propagation). He is an Associate Editor of International Journal on Antennas and Propagation (IJAP).

Since 2004, he has been teaching assistant within the courses "Electromagnetics fields", "Electromagnetic waves and optics", "Physics of transmissive media" and "Radio and optical wave propagation" (Telecommunication Engineering).