

VALERIO BAIOCCHI

Sapienza University of Rome - Department of Civil, Constructional and Environmental Engineering



Associate Professor in Geomatic

STITUTIONAL ROLES

Member of the Quality Commission of the master's degree course in "Safety, Security and Civil Protection Engineering" at the Sapienza University of Rome.

MAIN RESEARCH INTERESTS

Geomatic, Geodesy, GNNS/GPS, GIS, Remote sensing, Natural Hazards, South Italy Regions, Cultural Heritage; Archaeological reverse engineering

ACADEMIC CAREER

Valerio Baiocchi received his High school diploma at the age of 17 (the usual age in Italy is 19) at the Scientific High school "C.Cavour" of Rome, the oldest scientific High school of Italy. He is Geologist and Engineer, both full Graduation at "Sapienza" University of Rome, one of the oldest university of Europe, with top marks. He obtained a Ph.D. in Geodesy and survey, at 'Parthenope' University, Napoli, Italy (1996-1999), a Master in Environmental sciences (Scuola di specializzazione), at Urbino University, Italy (1995-1997), and a second Ph.D. in Infrastructures and transports, at 'Sapienza' University of Rome (2006-2009). He is author of more than 240 publications in the fields of Geomatics, Civil and Construction Engineering, Surveying, Photogrammetry, Cartography and Remote Sensing, H-index 15 on Scopus.

Main publication subjects:

- Territorial planning
- Innovative differential processing methods for the latest generation of GPS/GNSS terminals
- Extraction of high precision geometric information from historical maps by reverse engineering of historical geodetic systems
- Building, structure, infrastructure and environmental hazard (e.g. landslide) modelling (e.g. BIM) and monitoring.
- Application of Laser Scanner and GPS / INS techniques for Surveying and 3D modelling of archaeological sites.
- Processing of LiDAR data from airborne or ground sensors (ALS & TLS).
- Remote Sensing: processing optical and radar satellite data to extract geometric and/or semantic information

Awarded as winner of Electronics (MDPI) 2020 Best Paper Awards for the paper: "Assessment of Dual Frequency GNSS Observations from a Xiaomi Mi 8 Android Smartphone and Positioning Performance Analysis" that was also awarded in January 2020 by the Web of Science as "Top cited paper" for being in the top 1% of the most cited articles in the field "Engineering".

- Awarded as "Top reviewer" for earth sciences and related fields 2017 and 2018 by Publons (part of WOS)
- Awarded as "Sentinel of science" 2016 for "Earth sciences field" by Publons (part of WOS)
- Appointed tutor of "Publons academy" to follow young reviewers from Publons (part of WOS).