

1. Record Nr.	UNINA9910299398603321
Titolo	New Advanced GNSS and 3D Spatial Techniques [[electronic resource] ] : Applications to Civil and Environmental Engineering, Geophysics, Architecture, Archeology and Cultural Heritage // edited by Raffaella Cefalo, Janusz B. Zieliski, Maurizio Barbarella
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-56218-5
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (278 pages) : illustrations
Collana	Lecture Notes in Geoinformation and Cartography, , 1863-2246
Disciplina	526.1028
Soggetti	Geographical information systems Civil engineering Archaeology Cultural heritage Geographical Information Systems/Cartography Civil Engineering Cultural Heritage
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Part 1: New Advanced GNSS and 3D Spatial Techniques – Applications to Geodetic Networks, Mapping, Static and Kinematic positioning and Timing -- High Precision GNSS – prospects for science and applications -- Space time and maps -- The actual perspectives of GNSS multi-constellation services and receivers for kinematic applications -- FReDNet: evolution of a permanent GNSS receiver system -- Part 2: New Advanced GNSS and 3D Spatial Techniques Applications to Photogrammetry and Remote Sensing -- Procrustean Photogrammetry: From Exterior Orientation to Bundle Adjustment -- Towards Surveying with A Smartphone -- Evaluation of 3D reconstruction accuracy in the case of stereo camera-pose configuration -- Doing Science with Nano-Satellites -- Part 3: New Advanced GNSS and 3D Spatial Techniques Application to GIS, Web GIS, UAVs, Disaster Management and Cultural Heritage -- Optimization of a co-generative biomass plant location

using open source GIS techniques. Technical, economical and environmental validation methodology -- Geography of WWI sites along the Italian front by means of GIS tools -- Ionosphere TEC variations over Bosnia and Herzegovina using GNSS data.

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Sommario/riassunto

This book provides the latest research on and applications of advanced GNSS (Global Navigation Satellite System) and 3D spatial techniques in the fields of Civil and Environmental Engineering, Geophysics, Architecture, Archaeology and Cultural Heritage. It offers an updated reference guide on the above-mentioned topics for undergraduate and graduate students, PhDs, researchers, professionals and practitioners alike.

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