Antonio Abellan

List of Publications by Year
in descending order

43 papers	3,885 citations	318942 23 h-index	325983 40 g-index
55 all docs	55 docs citations	55 times ranked	4019 citing authors

#	ARTICLE	IF	CITATIONS
1	Remote thermal detection of exfoliation sheet deformation. Landslides, 2021, 18, 865-879.	2.7	12
2	MATLAB Virtual Toolbox for Retrospective Rockfall Source Detection and Volume Estimation Using 3D Point Clouds: A Case Study of a Subalpine Molasse Cliff. Geosciences (Switzerland), 2021, 11, 75.	1.0	5
3	Multi-Epoch and Multi-Imagery (MEMI) Photogrammetric Workflow for Enhanced Change Detection Using Time-Lapse Cameras. Remote Sensing, 2021, 13, 1460.	1.8	18
4	Calving of a Large Greenlandic Tidewater Glacier has Complex Links to Meltwater Plumes and MÃ©lange. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF006051.	1.0	10
5	Point Cloud Stacking: A Workflow to Enhance 3D Monitoring Capabilities Using Time-Lapse Cameras. Remote Sensing, 2020, 12, 1240.	1.8	10
6	High-accuracy UAV photogrammetry of ice sheet dynamics with no ground control. Cryosphere, 2019, 13, 955-968.	1.5	67
7	Calculation of the rockwall recession rate of a limestone cliff, affected by rockfalls, using cosmogenic chlorine-36. Case study of the Montsec Range (Eastern Pyrenees, Spain). Geomorphology, 2018, 306, 325-335.	1.1	9
8	Rockfall risk management using a pre-failure deformation database. Landslides, 2018, 15, 847-858.	2.7	22
9	A multidisciplinary approach for the investigation of a rock spreading on an urban slope. Landslides, 2018, 15, 199-217.	2.7	23
10	Automatic Mapping of Discontinuity Persistence on Rock Masses Using 3D Point Clouds. Rock Mechanics and Rock Engineering, 2018, 51, 3005-3028.	2.6	42
11	3-D Morphological Change Analysis of a Beach with Seagrass Berm Using a Terrestrial Laser Scanner. ISPRS International Journal of Geo-Information, 2018, 7, 234.	1.4	19
12	The role of tectonic deformation on rock avalanche occurrence in the Pampeanas Ranges, Argentina. Geomorphology, 2017, 289, 18-26.	1.1	10
13	Time lapse structureâ€from â€motion photogrammetry for continuous geomorphic monitoring. Earth Surface Processes and Landforms, 2017, 42, 2240-2253.	1.2	68
14	Identification of Rock Slope Discontinuity Sets from Laser Scanner and Photogrammetric Point Clouds: A Comparative Analysis. Procedia Engineering, 2017, 191, 838-845.	1.2	47
15	Using street view imagery for 3-D survey of rock slope failures. Natural Hazards and Earth System Sciences, 2017, 17, 2093-2107.	1.5	9
16	Brief communication: 3-D reconstruction of a collapsed rock pillar from Web-retrieved images and terrestrial lidar data â€" the 2005 event of the west face of the Drus (Mont Blanc massif). Natural Hazards and Earth System Sciences, 2017, 17, 1207-1220.	1.5	15
17	Automated terrestrial laser scanning with near-real-time change detection â€" monitoring of the SÃ©chilienne landslide. Earth Surface Dynamics, 2017, 5, 293-310.	1.0	78
18	3-D models and structural analysis of rock avalanches: the study of the deformation process to better understand the propagation mechanism. Earth Surface Dynamics, 2016, 4, 743-755.	1.0	23

#	Article	IF	Citations
19	"Use of 3D Point Clouds in Geohazards"·Special Issue: Current Challenges and Future Trends. Remote Sensing, 2016, 8, 130.	1.8	62
20	Image-based surface reconstruction in geomorphometry â€" merits, limits and developments. Earth Surface Dynamics, 2016, 4, 359-389.	1.0	379
21	Beyond 3-D: The new spectrum of lidar applications for earth and ecological sciences. Remote Sensing of Environment, 2016, 186, 372-392.	4.6	229
22	Characterization of rock slopes through slope mass rating using 3D point clouds. International Journal of Rock Mechanics and Minings Sciences, 2016, 84, 165-176.	2.6	63
23	Use of targets to track 3D displacements in highly vegetated areas affected by landslides. Landslides, 2016, 13, 821-831.	2.7	14
24	Correction of terrestrial LiDAR intensity channel using Orenâ€"Nayar reflectance model: An application to lithological differentiation. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 113, 17-29.	4.9	58
25	Geological layers detection and characterisation using high resolution 3D point clouds: example of a box-fold in the Swiss Jura Mountains. European Journal of Remote Sensing, 2015, 48, 541-568.	1.7	20
26	Common problems encountered in 3D mapping of geological contacts using high-resolution terrain and image data. European Journal of Remote Sensing, 2015, 48, 661-672.	1.7	5
27	Geological mapping and fold modeling using Terrestrial Laser Scanning point clouds: application to the Dents-du-Midi limestone massif (Switzerland). European Journal of Remote Sensing, 2015, 48, 569-591.	1.7	15
28	A 4D Filtering and Calibration Technique for Small-Scale Point Cloud Change Detection with a Terrestrial Laser Scanner. Remote Sensing, 2015, 7, 13029-13052.	1.8	67
29	Progressive failure leading to the 3 December 2013 rockfall at Puigcercós scarp (Catalonia, Spain). Landslides, 2015, 12, 585-595.	2.7	45
30	Discontinuity spacing analysis in rock masses using 3D point clouds. Engineering Geology, 2015, 195, 185-195.	2.9	111
31	Velocity Prediction on Time-Variant Landslides Using Moving Response Functions: Application to La Barmasse Rockslide (Valais, Switzerland). , 2015, , 323-327.		4
32	Automatic Rockfalls Volume Estimation Based on Terrestrial Laser Scanning Data. , 2015, , 425-428.		13
33	A new approach for semi-automatic rock mass joints recognition from 3D point clouds. Computers and Geosciences, 2014, 68, 38-52.	2.0	241
34	Spatio-temporal analysis of rockfall pre-failure deformation using Terrestrial LiDAR. Landslides, 2014, 11, 697-709.	2.7	70
35	Terrestrial laser scanning of rock slope instabilities. Earth Surface Processes and Landforms, 2014, 39, 80-97.	1.2	244
36	Rockfall detection from terrestrial LiDAR point clouds: A clustering approach using R. Journal of Spatial Information Science, 2014, , .	1.1	46

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37	Use of LIDAR in landslide investigations: a review. Natural Hazards, 2012, 61, 5-28.	1.6	789
38	Rockfall monitoring by Terrestrial Laser Scanning â€" case study of the basaltic rock face at Castellfollit de la Roca (Catalonia, Spain). Natural Hazards and Earth System Sciences, 2011, 11, 829-841.	1.5	84
39	Detection and spatial prediction of rockfalls by means of terrestrial laser scanner monitoring. Geomorphology, 2010, 119, 162-171.	1.1	208
40	Detection of millimetric deformation using a terrestrial laser scanner: experiment and application to a rockfall event. Natural Hazards and Earth System Sciences, 2009, 9, 365-372.	1.5	325
41	Rockfall induced seismic signals: case study in Montserrat, Catalonia. Natural Hazards and Earth System Sciences, 2008, 8, 805-812.	1.5	101
42	Application of a long-range Terrestrial Laser Scanner to a detailed rockfall study at Vall de Núria (Eastern Pyrenees, Spain). Engineering Geology, 2006, 88, 136-148.	2.9	175
43	Rockfall susceptibility assessment of carbonatic coastal cliffs, Palinuro (Southern Italy). Rendiconti Online Societa Geologica Italiana, 0, 41, 203-206.	0.3	1