

# Antonio Abellan

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8325980/antonio-abellan-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

2,878  
citations

23  
h-index

53  
g-index

55  
ext. papers

3,383  
ext. citations

4.8  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
44	Use of LIDAR in landslide investigations: a review. <i>Natural Hazards</i> , <b>2012</b> , 61, 5-28	3	587
43	Image-based surface reconstruction in geomorphometry [merits, limits and developments. <i>Earth Surface Dynamics</i> , <b>2016</b> , 4, 359-389	3.8	285
42	Detection of millimetric deformation using a terrestrial laser scanner: experiment and application to a rockfall event. <i>Natural Hazards and Earth System Sciences</i> , <b>2009</b> , 9, 365-372	3.9	236
41	Terrestrial laser scanning of rock slope instabilities. <i>Earth Surface Processes and Landforms</i> , <b>2014</b> , 39, 80-97	3.7	193
40	Detection and spatial prediction of rockfalls by means of terrestrial laser scanner monitoring. <i>Geomorphology</i> , <b>2010</b> , 119, 162-171	4.3	168
39	Beyond 3-D: The new spectrum of lidar applications for earth and ecological sciences. <i>Remote Sensing of Environment</i> , <b>2016</b> , 186, 372-392	13.2	165
38	A new approach for semi-automatic rock mass joints recognition from 3D point clouds. <i>Computers and Geosciences</i> , <b>2014</b> , 68, 38-52	4.5	157
37	Application of a long-range Terrestrial Laser Scanner to a detailed rockfall study at Vall de Núria (Eastern Pyrenees, Spain). <i>Engineering Geology</i> , <b>2006</b> , 88, 136-148	6	148
36	Rockfall induced seismic signals: case study in Montserrat, Catalonia. <i>Natural Hazards and Earth System Sciences</i> , <b>2008</b> , 8, 805-812	3.9	82
35	Discontinuity spacing analysis in rock masses using 3D point clouds. <i>Engineering Geology</i> , <b>2015</b> , 195, 185-195	7.9	79
34	Rockfall monitoring by Terrestrial Laser Scanning [case study of the basaltic rock face at Castellfolit de la Roca (Catalonia, Spain). <i>Natural Hazards and Earth System Sciences</i> , <b>2011</b> , 11, 829-841	3.9	67
33	Spatio-temporal analysis of rockfall pre-failure deformation using Terrestrial LiDAR. <i>Landslides</i> , <b>2014</b> , 11, 697-709	6.6	57
32	A 4D Filtering and Calibration Technique for Small-Scale Point Cloud Change Detection with a Terrestrial Laser Scanner. <i>Remote Sensing</i> , <b>2015</b> , 7, 13029-13052	5	53
31	High-accuracy UAV photogrammetry of ice sheet dynamics with no ground control. <i>Cryosphere</i> , <b>2019</b> , 13, 955-968	5.5	50
30	Characterization of rock slopes through slope mass rating using 3D point clouds. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2016</b> , 84, 165-176	6	49
29	Automated terrestrial laser scanning with near-real-time change detection [monitoring of the SÈhيلية landslide. <i>Earth Surface Dynamics</i> , <b>2017</b> , 5, 293-310	3.8	46
28	Time lapse structure-from-motion photogrammetry for continuous geomorphic monitoring. <i>Earth Surface Processes and Landforms</i> , <b>2017</b> , 42, 2240-2253	3.7	45

27	Correction of terrestrial LiDAR intensity channel using OreNlayar reflectance model: An application to lithological differentiation. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2016</b> , 113, 17-29	11.8	41
26	Progressive failure leading to the 3 December 2013 rockfall at Puigcerçà scarp (Catalonia, Spain). <i>Landslides</i> , <b>2015</b> , 12, 585-595	6.6	35
25	Identification of Rock Slope Discontinuity Sets from Laser Scanner and Photogrammetric Point Clouds: A Comparative Analysis. <i>Procedia Engineering</i> , <b>2017</b> , 191, 838-845		33
24	Rockfall detection from terrestrial LiDAR point clouds: A clustering approach using R. <i>Journal of Spatial Information Science</i> , <b>2014</b> ,	1.1	32
23	Automatic Mapping of Discontinuity Persistence on Rock Masses Using 3D Point Clouds. <i>Rock Mechanics and Rock Engineering</i> , <b>2018</b> , 51, 3005-3028	5.7	30
22	Image-based surface reconstruction in geomorphometry [Merits, limits and developments of a promising tool for geoscientists		18
21	Rockfall risk management using a pre-failure deformation database. <i>Landslides</i> , <b>2018</b> , 15, 847-858	6.6	16
20	Geological layers detection and characterisation using high resolution 3D point clouds: example of a box-fold in the Swiss Jura Mountains. <i>European Journal of Remote Sensing</i> , <b>2015</b> , 48, 541-568	2.9	15
19	3-D models and structural analysis of rock avalanches: the study of the deformation process to better understand the propagation mechanism. <i>Earth Surface Dynamics</i> , <b>2016</b> , 4, 743-755	3.8	15
18	A multidisciplinary approach for the investigation of a rock spreading on an urban slope. <i>Landslides</i> , <b>2018</b> , 15, 199-217	6.6	14
17	Automatic Rockfalls Volume Estimation Based on Terrestrial Laser Scanning Data <b>2015</b> , 425-428		12
16	3-D Morphological Change Analysis of a Beach with Seagrass Berm Using a Terrestrial Laser Scanner. <i>ISPRS International Journal of Geo-Information</i> , <b>2018</b> , 7, 234	2.9	11
15	Use of targets to track 3D displacements in highly vegetated areas affected by landslides. <i>Landslides</i> , <b>2016</b> , 13, 821-831	6.6	10
14	Brief communication: 3-D reconstruction of a collapsed rock pillar from Web-retrieved images and terrestrial lidar data [the 2005 event of the west face of the Drus (Mont Blanc massif). <i>Natural Hazards and Earth System Sciences</i> , <b>2017</b> , 17, 1207-1220	3.9	10
13	Geological mapping and fold modeling using Terrestrial Laser Scanning point clouds: application to the Dents-du-Midi limestone massif (Switzerland). <i>European Journal of Remote Sensing</i> , <b>2015</b> , 48, 569-591	2.9	10
12	The role of tectonic deformation on rock avalanche occurrence in the Pampeanas Ranges, Argentina. <i>Geomorphology</i> , <b>2017</b> , 289, 18-26	4.3	9
11	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). <i>Geomorphology</i> , <b>2018</b> , 306, 325-335	4.3	7
10	Multi-Epoch and Multi-Imagery (MEMI) Photogrammetric Workflow for Enhanced Change Detection Using Time-Lapse Cameras. <i>Remote Sensing</i> , <b>2021</b> , 13, 1460	5	7

9	Using street view imagery for 3-D survey of rock slope failures. <i>Natural Hazards and Earth System Sciences</i> , <b>2017</b> , 17, 2093-2107	3.9	6
8	Point Cloud Stacking: A Workflow to Enhance 3D Monitoring Capabilities Using Time-Lapse Cameras. <i>Remote Sensing</i> , <b>2020</b> , 12, 1240	5	5
7	Remote thermal detection of exfoliation sheet deformation. <i>Landslides</i> , <b>2021</b> , 18, 865-879	6.6	5
6	Common problems encountered in 3D mapping of geological contacts using high-resolution terrain and image data. <i>European Journal of Remote Sensing</i> , <b>2015</b> , 48, 661-672	2.9	4
5	Velocity Prediction on Time-Variant Landslides Using Moving Response Functions: Application to La Barmasse Rockslide (Valais, Switzerland) <b>2015</b> , 323-327		4
4	Calving of a Large Greenlandic Tidewater Glacier has Complex Links to Meltwater Plumes and Mlange. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2021</b> , 126, e2020JF006051	3.8	4
3	Automated Terrestrial Laser Scanning with Near Real-Time Change Detection [Monitoring of the Shilienne Landslide		3
2	MATLAB Virtual Toolbox for Retrospective Rockfall Source Detection and Volume Estimation Using 3D Point Clouds: A Case Study of a Subalpine Molasse Cliff. <i>Geosciences (Switzerland)</i> , <b>2021</b> , 11, 75	2.7	3
1	3-D models and structural analysis of analogue rock avalanche deposits: a kinematic analysis of the propagation mechanism		2