

Michael J Olsen

List of Publications by Year in Descending Order

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

85
papers

1,761
citations

23
h-index

39
g-index

88
ext. papers

2,089
ext. citations

4.9
avg, IF

5.35
L-index

#	Paper	IF	Citations
85	SlideSim: 3D Landslide Displacement Monitoring through a Physics-Based Simulation Approach to Self-Supervised Learning. <i>Remote Sensing</i> , 2022 , 14, 2644	1.7	1
84	Mobile Terrestrial Laser Scanning and Mapping 2022 , 303-340		
83	Terrestrial Laser Scanning 2022 , 233-302		
82	Multihazard Damage and Loss Assessment of Bridges in a Highway Network Subjected to Earthquake and Tsunami Hazards. <i>Natural Hazards Review</i> , 2021 , 22, 05021002	0.8	1
81	Dense Point Cloud Quality Factor as Proxy for Accuracy Assessment of Image-Based 3D Reconstruction. <i>Journal of Surveying Engineering, - ASCE</i> , 2021 , 147, 04020021	0.3	8
80	Efficient segment-based ground filtering and adaptive road detection from mobile light detection and ranging (LiDAR) data. <i>International Journal of Remote Sensing</i> , 2021 , 42, 3633-3659	1.2	6
79	Approximations, Errors, and Misconceptions in the Use of Map Projections. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-12	0.5	1
78	Automated and efficient powerline extraction from laser scanning data using a voxel-based subsampling with hierarchical approach. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 163, 343-361	4.5	14
77	Estimates of three-dimensional rupture surface geometry of deep-seated landslides using landslide inventories and high-resolution topographic data. <i>Geomorphology</i> , 2020 , 367, 107332	1.3	5
76	Case study: Post-earthquake model updating of a heritage pagoda masonry temple using AEM and FEM. <i>Engineering Structures</i> , 2020 , 206, 109950	2	9
75	Quantification of Surface Roughness Using Laser Scanning with Application to the Frictional Resistance of Sand-Timber Pile Interfaces. <i>Geotechnical Testing Journal</i> , 2020 , 43, 20180384	0.4	4
74	A Geotechnical Database for Utah (GeoDU) enabling quantification of geotechnical properties of surficial geologic units for geohazard assessments. <i>Earthquake Spectra</i> , 2020 , 36, 422-451	1.3	2
73	Reconstructing the Velocity and Deformation of a Rapid Landslide Using Multiview Video. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2019JF005348	0.9	2
72	Geologic Trends in Shear Strength Properties Inferred Through Three-Dimensional Back Analysis of Landslide Inventories. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2019JF005461	0.9	4
71	Data Gap Classification for Terrestrial Laser Scanning-Derived Digital Elevation Models. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 749	1.1	2
70	Lateral spreading within a limit equilibrium framework: Newmark's sliding blocks with degrading yield accelerations. <i>Geotechnique</i> , 2020 , 70, 559-561	1.1	
69	Spatial distribution of yield accelerations and permanent displacements: A diagnostic tool for assessing seismic slope stability. <i>Soil Dynamics and Earthquake Engineering</i> , 2019 , 126, 105811	1.3	1

68	Policy processes and recommendations for Unmanned Aerial System operations near roadways based on visual attention of drivers. <i>Transportation Research Part C: Emerging Technologies</i> , 2019 , 108, 207-222	2.7	17
67	An Efficient Framework for Mobile Lidar Trajectory Reconstruction and Mo-norvana Segmentation. <i>Remote Sensing</i> , 2019 , 11, 836	1.7	12
66	A Simplified, Object-Based Framework for Efficient Landslide Inventorying Using LIDAR Digital Elevation Model Derivatives. <i>Remote Sensing</i> , 2019 , 11, 303	1.7	21
65	Object Recognition, Segmentation, and Classification of Mobile Laser Scanning Point Clouds: A State of the Art Review. <i>Sensors</i> , 2019 , 19,	1.5	96
64	Evaluation of Uncrewed Aircraft SystemsLidar Data Quality. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 532	1.1	6
63	Influence of both anisotropic friction and cohesion on the formation of tension cracks and stability of slopes. <i>Engineering Geology</i> , 2019 , 249, 31-44	2.2	17
62	Interactive Visualization of 3D Coordinate Uncertainties in Terrestrial Laser - Scanning Point Clouds Using OpenGL Shader Language. <i>Journal of Surveying Engineering, - ASCE</i> , 2019 , 145, 04018012	0.3	4
61	Efficient and robust lane marking extraction from mobile lidar point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019 , 147, 1-18	4.5	42
60	Quantifying the Sensitivity of Progressive Landslide Movements to Failure Geometry, Undercutting Processes and Hydrological Changes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 616-638	0.9	4
59	Efficient Planning and Acquisition of Terrestrial Laser ScanningDerived Digital Elevation Models: Proof of Concept Study. <i>Journal of Surveying Engineering, - ASCE</i> , 2019 , 145, 06018003	0.3	4
58	Probabilistic liquefaction-induced lateral spread hazard mapping and its application to Utah County, Utah. <i>Engineering Geology</i> , 2018 , 237, 76-91	2.2	1
57	Multi-scan segmentation of terrestrial laser scanning data based on normal variation analysis. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018 , 143, 233-248	4.5	31
56	Tale of Two RTNs: Rigorous Evaluation of Real-Time Network GNSS Observations. <i>Journal of Surveying Engineering, - ASCE</i> , 2018 , 144, 05018001	0.3	8
55	3D virtual intersection sight distance analysis using lidar data. <i>Transportation Research Part C: Emerging Technologies</i> , 2018 , 86, 563-579	2.7	38
54	The impact of rockfalls on dwellings during the 2011 Christchurch, New Zealand, earthquakes. <i>Landslides</i> , 2018 , 15, 31-42	2	8
53	Lateral spreading within a limit equilibrium framework: Newmark sliding blocks with degrading yield accelerations. <i>Geotechnique</i> , 2018 , 68, 699-712	1.1	3
52	Prepare for Cascadia's next earthquake. <i>Science</i> , 2018 , 362, 1007	10	
51	Limit Equilibrium Stability Analysis of Layered Slopes: a Generalized Approach. <i>Transportation Infrastructure Geotechnology</i> , 2018 , 5, 366-378	0.7	3

50	Suitability of structure from motion for rock-slope assessment. <i>Photogrammetric Record</i> , 2018 , 33, 217-242	12
49	Detecting sudden moving objects in a series of digital images with different exposure times. <i>Computer Vision and Image Understanding</i> , 2017 , 158, 17-30	1.1 4
48	Fast ground filtering for TLS data via Scanline Density Analysis. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 129, 226-240	4.5 23
47	A simplified three-dimensional shallow landslide susceptibility framework considering topography and seismicity. <i>Landslides</i> , 2017 , 14, 1677-1697	2 27
46	Rockfall Activity Index (RAI): A lidar-derived, morphology-based method for hazard assessment. <i>Engineering Geology</i> , 2017 , 221, 184-192	2.2 23
45	Performance-based, seismically-induced landslide hazard mapping of Western Oregon. <i>Soil Dynamics and Earthquake Engineering</i> , 2017 , 103, 38-54	1.3 7
44	Damage Reconnaissance of Unreinforced Masonry Bearing Wall Buildings after the 2015 Gorkha, Nepal, Earthquake. <i>Earthquake Spectra</i> , 2017 , 33, 243-273	1.3 40
43	Performance of Medium-to-High Rise Reinforced Concrete Frame Buildings with Masonry Infill in the 2015 Gorkha, Nepal, Earthquake. <i>Earthquake Spectra</i> , 2017 , 33, 197-218	1.3 30
42	Mitigating coastal landslide damage. <i>Science</i> , 2017 , 357, 981-982	10 11
41	Analysis of the Multipass Approach for Collection and Processing of Mobile Laser Scan Data. <i>Journal of Surveying Engineering, - ASCE</i> , 2017 , 143, 04017004	0.3 4
40	An Assessment of UAS-Based Photogrammetry for Civil Integrated Management (CIM) Modeling of Pipes 2017 ,	3
39	Liquefaction effects and associated damages observed at the Wellington CentrePort from the 2016 Kaikoura earthquake. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2017 , 50, 152-173	0.3 49
38	Fate and Transport of Seacliff Failure Sediment in Southern California. <i>Journal of Coastal Research</i> , 2016 , 76, 185-199	0.5 4
37	Mobile Lidar Guidelines to Support Utility Asset Management along Highways 2016 ,	2
36	Role of BIM and 3D Laser Scanning on Job sites from the Perspective of Construction Project Management Personnel 2016 ,	4
35	Evaluation of landslide susceptibility mapping techniques using lidar-derived conditioning factors (Oregon case study). <i>Geomatics, Natural Hazards and Risk</i> , 2016 , 7, 1884-1907	1.4 55
34	Evaluation of the influence of source and spatial resolution of DEMs on derivative products used in landslide mapping. <i>Geomatics, Natural Hazards and Risk</i> , 2016 , 7, 1835-1855	1.4 23
33	Alternative Information Signs: Evaluation of Driver Comprehension and Visual Attention. <i>Journal of Transportation Engineering</i> , 2016 , 142, 04015036	9

32	Morphological Expressions of Coastal Cliff Erosion Processes in San Diego County. <i>Journal of Coastal Research</i> , 2016 , 76, 174-184	0.5	9
31	Efficient terrestrial laser scan segmentation exploiting data structure. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016 , 119, 135-150	4.5	12
30	Evaluation of Technologies for Road Profile Capture, Analysis, and Evaluation. <i>Journal of Surveying Engineering</i> , - ASCE, 2015 , 141, 04014011	0.3	17
29	In Situ Change Analysis and Monitoring through Terrestrial Laser Scanning. <i>Journal of Computing in Civil Engineering</i> , 2015 , 29, 04014040	2.5	22
28	Individual snag detection using neighborhood attribute filtered airborne lidar data. <i>Remote Sensing of Environment</i> , 2015 , 163, 165-179	4.9	43
27	Contour Connection Method for automated identification and classification of landslide deposits. <i>Computers and Geosciences</i> , 2015 , 74, 27-38	1.5	25
26	To Fill or Not to Fill: Sensitivity Analysis of the Influence of Resolution and Hole Filling on Point Cloud Surface Modeling and Individual Rockfall Event Detection. <i>Remote Sensing</i> , 2015 , 7, 12103-12134	1.7	27
25	A Review of LIDAR Radiometric Processing: From Ad Hoc Intensity Correction to Rigorous Radiometric Calibration. <i>Sensors</i> , 2015 , 15, 28099-128	1.5	164
24	Automated quantification of distributed landslide movement using circular tree trunks extracted from terrestrial laser scan data. <i>Computers and Geosciences</i> , 2014 , 67, 31-39	1.5	11
23	Tsunami Modeling, Fluid Load Simulation, and Validation Using Geospatial Field Data. <i>Journal of Structural Engineering</i> , 2014 , 140,	1.4	14
22	Using terrestrial laser scanning to support ecological research in the rocky intertidal zone. <i>Journal of Coastal Conservation</i> , 2014 , 18, 701-714	0.7	8
21	Superpixel Clustering and Planar Fit Segmentation of 3D LIDAR Point Clouds 2013 ,		8
20	Hinged, Pseudo-Grid Triangulation Method for Long, Near-Linear Cliff Analyses. <i>Journal of Surveying Engineering</i> , - ASCE, 2013 , 139, 105-109	0.3	6
19	Optical techniques for multiscale damage assessment. <i>Geomatics, Natural Hazards and Risk</i> , 2013 , 4, 49-70	1.4	31
18	Geospatial Characterization of Causative Factors for Recent Landslides in the Oregon Coast Range 2013 ,		1
17	Synthesis of Transportation Applications of Mobile LIDAR. <i>Remote Sensing</i> , 2013 , 5, 4652-4692	1.7	111
16	To Level or Not to Level: Laser Scanner Inclination Sensor Stability and Application. <i>Journal of Surveying Engineering</i> , - ASCE, 2012 , 138, 117-125	0.3	13
15	Prediction of understory vegetation cover with airborne lidar in an interior ponderosa pine forest. <i>Remote Sensing of Environment</i> , 2012 , 124, 730-741	4.9	98

14	TopCAT—Topographical Compartment Analysis Tool to analyze seacliff and beach change in GIS. <i>Computers and Geosciences</i> , 2012 , 45, 284-292	1.5	11
13	Post-Earthquake and Tsunami 3D Laser Scanning Forensic Investigations 2012 ,		14
12	New Automated Point-Cloud Alignment for Ground-Based Light Detection and Ranging Data of Long Coastal Sections. <i>Journal of Surveying Engineering, - ASCE</i> , 2011 , 137, 14-25	0.3	45
11	Linking Surveying, Engineering, GIS, and Computer Science into Geomatics through a Digital Terrain Modeling Course. <i>Journal of Surveying Engineering, - ASCE</i> , 2011 , 137, 37-39	0.3	1
10	A Wave of New Information: LIDAR Investigations of the 2009 Samoan Tsunami 2011 ,		4
9	Terrestrial Laser Scanning-Based Structural Damage Assessment. <i>Journal of Computing in Civil Engineering</i> , 2010 , 24, 264-272	2.5	163
8	Discussion of Use of terrestrial laser scanning for the characterization of retrogressive landslides in sensitive clay and rotational landslides in river banks—Appears in the Canadian Geotechnical Journal: 46(12): 1379–1390.. <i>Canadian Geotechnical Journal</i> , 2010 , 47, 1164-1168	0.9	1
7	Comparison of Airborne and Terrestrial Lidar Estimates of Seacliff Erosion in Southern California. <i>Photogrammetric Engineering and Remote Sensing</i> , 2010 , 76, 421-427	0.7	67
6	Terrestrial Laser Scanning of Extended Cliff Sections in Dynamic Environments: Parameter Analysis. <i>Journal of Surveying Engineering, - ASCE</i> , 2009 , 135, 161-169	0.3	61
5	Rapid Response to Seacliff Erosion in San Diego County, California Using Terrestrial LIDAR 2008 ,		4
4	VR-based visual analytics of LIDAR data for cliff erosion assessment 2007 ,		3
3	Lateral Spread Hazard Mapping of the Northern Salt Lake Valley, Utah, for a M7.0 Scenario Earthquake. <i>Earthquake Spectra</i> , 2007 , 23, 95-113	1.3	11
2	FAST EDGE DETECTION AND SEGMENTATION OF TERRESTRIAL LASER SCANS THROUGH NORMAL VARIATION ANALYSIS. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , IV-2/W4, 51-57		2
1	MULTI-PASS APPROACH FOR MOBILE TERRESTRIAL LASER SCANNING. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , II-3/W5, 105-112		6