

# Celestino OrdÃ³ñez

## List of Publications by Year in descending order

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121  
papers

2,637  
citations

185998

28  
h-index

223531

46  
g-index

123  
all docs

123  
docs citations

123  
times ranked

2758  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy of Unmanned Aerial Vehicle (UAV) and SfM Photogrammetry Survey as a Function of the Number and Location of Ground Control Points Used. <i>Remote Sensing</i> , 2018, 10, 1606.	1.8	237
2	An algorithm for automatic detection of pole-like street furniture objects from Mobile Laser Scanner point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 87, 47-56.	4.9	148
3	A hybrid ARIMA-SVM model for the study of the remaining useful life of aircraft engines. <i>Journal of Computational and Applied Mathematics</i> , 2019, 346, 184-191.	1.1	147
4	Comparing Terrestrial Laser Scanning (TLS) and Wearable Laser Scanning (WLS) for Individual Tree Modeling at Plot Level. <i>Remote Sensing</i> , 2018, 10, 540.	1.8	99
5	Control of structural problems in cultural heritage monuments using close-range photogrammetry and computer methods. <i>Computers and Structures</i> , 2005, 83, 1754-1766.	2.4	86
6	Automatic dendrometry: Tree detection, tree height and diameter estimation using terrestrial laser scanning. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 69, 164-174.	1.4	77
7	Terrestrial laser scanning used to determine the geometry of a granite boulder for stability analysis purposes. <i>Geomorphology</i> , 2009, 106, 271-277.	1.1	72
8	Geographically Weighted Principal Components Analysis to assess diffuse pollution sources of soil heavy metal: Application to rough mountain areas in Northwest Spain. <i>Geoderma</i> , 2018, 311, 120-129.	2.3	69
9	Measurement planning for circular cross-section tunnels using terrestrial laser scanning. <i>Automation in Construction</i> , 2013, 31, 1-9.	4.8	67
10	Automatic Detection and Classification of Pole-Like Objects in Urban Point Cloud Data Using an Anomaly Detection Algorithm. <i>Remote Sensing</i> , 2015, 7, 12680-12703.	1.8	62
11	FEM modeling of structures based on close range digital photogrammetry. <i>Automation in Construction</i> , 2009, 18, 559-569.	4.8	59
12	Missing data imputation of questionnaires by means of genetic algorithms with different fitness functions. <i>Journal of Computational and Applied Mathematics</i> , 2017, 311, 704-717.	1.1	52
13	An approach to detect and delineate street curbs from MLS 3D point cloud data. <i>Automation in Construction</i> , 2015, 51, 103-112.	4.8	50
14	Methods for documenting historical agro-industrial buildings: a comparative study and a simple photogrammetric method. <i>Journal of Cultural Heritage</i> , 2006, 7, 350-354.	1.5	48
15	Measuring building façades with a low-cost close-range photogrammetry system. <i>Automation in Construction</i> , 2010, 19, 742-749.	4.8	47
16	Estimating intercept factor of a parabolic solar trough collector with new supporting structure using off-the-shelf photogrammetric equipment. <i>Applied Energy</i> , 2012, 92, 815-821.	5.1	47
17	Creating a quality map of a slate deposit using support vector machines. <i>Journal of Computational and Applied Mathematics</i> , 2007, 204, 84-94.	1.1	44
18	Support vector machines and neural networks used to evaluate paper manufactured using <i>Eucalyptus globulus</i> . <i>Applied Mathematical Modelling</i> , 2012, 36, 6137-6145.	2.2	44

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19	Low-cost documentation of traditional agro-industrial buildings by close-range photogrammetry. <i>Building and Environment</i> , 2007, 42, 1817-1827.	3.0	42
20	Comparison of indicator kriging, conditional indicator simulation and multiple-point statistics used to model slate deposits. <i>Engineering Geology</i> , 2008, 98, 50-59.	2.9	38
21	Functional statistical techniques applied to vine leaf water content determination. <i>Mathematical and Computer Modelling</i> , 2010, 52, 1116-1122.	2.0	38
22	Automatic Detection and Classification of Pole-Like Objects for Urban Cartography Using Mobile Laser Scanning Data. <i>Sensors</i> , 2017, 17, 1465.	2.1	37
23	Using Hyperspectral Spectrometry and Functional Models to Characterize Vine-Leaf Composition. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 2610-2618.	2.7	35
24	Reforestation planning using Bayesian networks. <i>Environmental Modelling and Software</i> , 2009, 24, 1285-1292.	1.9	34
25	Hard-Rock Stability Analysis for Span Design in Entry-Type Excavations with Learning Classifiers. <i>Materials</i> , 2016, 9, 531.	1.3	32
26	Biophysical and lightning characteristics drive lightning-induced fire occurrence in the central plateau of the Iberian Peninsula. <i>Agricultural and Forest Meteorology</i> , 2016, 225, 36-47.	1.9	31
27	Origin, patterns and anthropogenic accumulation of potentially toxic elements (PTEs) in surface sediments of the AvilÃ©s estuary (Asturias, northern Spain). <i>Marine Pollution Bulletin</i> , 2014, 86, 530-538.	2.3	29
28	Analysis of the influence of range and angle of incidence of terrestrial laser scanning measurements on tunnel inspection. <i>Tunnelling and Underground Space Technology</i> , 2014, 43, 133-139.	3.0	29
29	An Algorithm for Automatic Road Asphalt Edge Delineation from Mobile Laser Scanner Data Using the Line Clouds Concept. <i>Remote Sensing</i> , 2016, 8, 740.	1.8	29
30	Leaf water content estimation by functional linear regression of field spectroscopy data. <i>Biosystems Engineering</i> , 2018, 165, 36-46.	1.9	29
31	Machine learning techniques applied to the determination of osteoporosis incidence in post-menopausal women. <i>Mathematical and Computer Modelling</i> , 2009, 50, 673-679.	2.0	26
32	Using model-based geostatistics to predict lightning-caused wildfires. <i>Environmental Modelling and Software</i> , 2012, 29, 44-50.	1.9	25
33	Analysis of the influence of forest environments on the accuracy of GPS measurements by using genetic algorithms. <i>Mathematical and Computer Modelling</i> , 2011, 54, 1829-1834.	2.0	24
34	A Conceptual Model for Analyzing the Risks Involved in the Transportation of Hazardous Goods: Implementation in a Geographic Information System. <i>Human and Ecological Risk Assessment (HERA)</i> , 2003, 9, 857-873.	1.7	23
35	Forecasting SO <sub>2</sub> Pollution Incidents by means of Elman Artificial Neural Networks and ARIMA Models. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-6.	0.3	22
36	Design and planning for slate mining using optimisation algorithms. <i>Engineering Geology</i> , 2004, 73, 93-103.	2.9	21



#	ARTICLE	IF	CITATIONS
55	Large scale semi-automatic detection of forest roads from low density LiDAR data on steep terrain in Northern Spain. <i>IForest</i> , 2019, 12, 366-374.	0.5	13
56	Geostatistical study of the feldspar content and quality of a granite deposit. <i>Engineering Geology</i> , 2002, 65, 285-292.	2.9	12
57	Application of Close Range Photogrammetry to Deck Measurement in Recreational Ships. <i>Sensors</i> , 2009, 9, 6991-7002.	2.1	12
58	Cyanotoxin level prediction in a reservoir using gradient boosted regression trees: a case study. <i>Environmental Science and Pollution Research</i> , 2018, 25, 22658-22671.	2.7	12
59	A combined single range and single image device for low-cost measurement of building facade features. <i>Photogrammetric Record</i> , 2008, 23, 228-240.	0.4	11
60	Non-contact 3D Measurement of Buildings through Close Range Photogrammetry and a Laser Distance Meter. <i>Photogrammetric Engineering and Remote Sensing</i> , 2011, 77, 805-811.	0.3	11
61	Multiscale Supervised Classification of Point Clouds with Urban and Forest Applications. <i>Sensors</i> , 2019, 19, 4523.	2.1	11
62	A Methodology for the Inventory of Historical Infrastructures: Documentation, Current State, and Influencing Factors. <i>International Journal of Architectural Heritage</i> , 2011, 5, 629-646.	1.7	10
63	Detection of Outliers in GPS Measurements by Using Functional-Data Analysis. <i>Journal of Surveying Engineering</i> , - ASCE, 2011, 137, 150-155.	1.0	10
64	Analysis of the influence of forestry environments on the accuracy of GPS measurements by means of recurrent neural networks. <i>Mathematical and Computer Modelling</i> , 2013, 57, 2016-2023.	2.0	10
65	Element enrichment factor calculation using grain-size distribution and functional data regression. <i>Chemosphere</i> , 2015, 119, 1192-1199.	4.2	10
66	Hybrid ABC Optimized MARS-Based Modeling of the Milling Tool Wear from Milling Run Experimental Data. <i>Materials</i> , 2016, 9, 82.	1.3	10
67	Detection of human vital signs in hazardous environments by means of video magnification. <i>PLoS ONE</i> , 2018, 13, e0195290.	1.1	10
68	Sediment particle size distributions apportionment by means of functional cluster analysis (FCA). <i>Catena</i> , 2016, 137, 31-36.	2.2	9
69	Intercomparison Exercise for Gases Emitted by a Cement Industry in Spain: A Functional Data Approach. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 135-141.	0.9	8
70	Comparison of GPS observations made in a forestry setting using functional data analysis. <i>International Journal of Computer Mathematics</i> , 2012, 89, 402-408.	1.0	8
71	Influence of the Number and Spatial Distribution of Ground Control Points in the Accuracy of UAV-SfM DEMs: An Approach Based on Generalized Additive Models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 10618-10627.	2.7	8
72	Geometric optimization of trough collectors using terrestrial laser scanning: Feasibility analysis using a new statistical assessment method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 47, 92-99.	2.5	7

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73	A New Predictive Model Based on the ABC Optimized Multivariate Adaptive Regression Splines Approach for Predicting the Remaining Useful Life in Aircraft Engines. <i>Energies</i> , 2016, 9, 409.	1.6	7
74	Vineyard zone delineation by cluster classification based on annual grape and vine characteristics. <i>Precision Agriculture</i> , 2017, 18, 525-573.	3.1	7
75	Testing spatial heterogeneity in geographically weighted principal components analysis. <i>International Journal of Geographical Information Science</i> , 2017, 31, 676-693.	2.2	7
76	A Distance Correlation Approach for Optimum Multiscale Selection in 3D Point Cloud Classification. <i>Mathematics</i> , 2021, 9, 1328.	1.1	7
77	Documentation for the Preservation of Traditional agro-industrial buildings in N.W. Spain using simple close range photogrammetry. <i>Survey Review</i> , 2006, 38, 525-540.	0.7	6
78	Risk Communications: Around the World Neural Network Models for Assessing Road Suitability for Dangerous Goods Transport. <i>Human and Ecological Risk Assessment (HERA)</i> , 2006, 12, 174-191.	1.7	6
79	Damage Quantification and Monitoring in Masonry Monuments through Digital Photogrammetry. <i>Key Engineering Materials</i> , 2007, 347, 291-296.	0.4	6
80	Partially linear support vector machines applied to the prediction of mine slope movements. <i>Mathematical and Computer Modelling</i> , 2010, 51, 206-215.	2.0	6
81	Machine Learning Techniques Applied to the Assessment of GPS Accuracy under the Forest Canopy. <i>Journal of Surveying Engineering, - ASCE</i> , 2011, 137, 140-149.	1.0	6
82	Functional data analysis as a tool to correlate textural and geochemical data. <i>Applied Mathematics and Computation</i> , 2013, 223, 476-482.	1.4	6
83	Forecasting SO <sub>2</sub> pollution incidents by means of quantile curves based on additive models. <i>Environmetrics</i> , 2016, 27, 147-157.	0.6	6
84	Stability analysis of a tunnel using LIDAR data and the keyblock method. <i>Bulletin of Engineering Geology and the Environment</i> , 2016, 75, 469-483.	1.6	6
85	Analyzing coastal environments by means of functional data analysis. <i>Sedimentary Geology</i> , 2017, 357, 99-108.	1.0	6
86	Real-time tomographic reconstructor based on convolutional neural networks for solar observation. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 8032-8041.	1.2	6
87	Learning Machines Applied to Potential Forest Distribution. <i>Environmental Management</i> , 2005, 35, 109-120.	1.2	5
88	Determining optimum wavelengths for leaf water content estimation from reflectance: A distance correlation approach. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 173, 41-50.	1.8	5
89	Predictive model of gas consumption and air emissions of a lime kiln in a kraft process using the ABC/MARS-based technique. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 100, 1549-1562.	1.5	5
90	Analysis of dust pollution in slate and granite transformation plants. <i>Environmental Progress</i> , 2007, 26, 178-187.	0.8	4

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91	A software program for semi-automated measurement of building façades. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1197-1206.	2.5	4
92	Functional outlier detection in grain-size distribution curves of detrital sediments. Sedimentary Geology, 2013, 297, 31-37.	1.0	4
93	Validating The Supporting Structure of A Parabolic Solar Collector Using Close Range Photogrammetry. Photogrammetric Record, 2013, 28, 211-226.	0.4	4
94	Deformation analysis in tunnels through curve clustering. Applied Mathematical Modelling, 2016, 40, 1325-1332.	2.2	4
95	Assessing the Environmental Impact of Slate Quarrying Using Bayesian Networks and GIS. AIP Conference Proceedings, 2007, . .	0.3	3
96	Determining Noise in an Aggregates Plant Using Functional Statistics. Human and Ecological Risk Assessment (HERA), 2011, 17, 521-533.	1.7	3
97	A statistical method for geometry inspection from point clouds. Applied Mathematics and Computation, 2014, 242, 562-568.	1.4	3
98	Assessing planar asymmetries in shipbuilding from point clouds. Measurement: Journal of the International Measurement Confederation, 2017, 100, 252-261.	2.5	3
99	Predicting pollution incidents through semiparametric quantile regression models. Stochastic Environmental Research and Risk Assessment, 2019, 33, 673-685.	1.9	3
100	An algorithm for the automatic parametrization of wood volume equations from Terrestrial Laser Scanning point clouds: application in <i>Pinus pinaster</i> . GIScience and Remote Sensing, 2021, 58, 1130-1150.	2.4	3
101	Study of posterolateral lumbar arthrodesis by means of a finite element model. Mathematical and Computer Modelling, 2009, 50, 680-694.	2.0	2
102	A mathematical algorithm for dimensional control of tunnels using topographic profiles. International Journal of Computer Mathematics, 2013, 90, 2072-2078.	1.0	2
103	Predicting SO2 pollution incidents by means of additive models with optimum variable selection. Atmospheric Environment, 2014, 95, 151-157.	1.9	2
104	Room Design for Underground Slate Workings: Analysis of Safety Factors for Keyblocks. Rock Mechanics and Rock Engineering, 2016, 49, 1107-1113.	2.6	2
105	Automatic Assessment of Individual Stem Shape Parameters in Forest Stands from TLS Point Clouds: Application in <i>Pinus pinaster</i> . Forests, 2022, 13, 431.	0.9	2
106	Determining vine leaf water stress by functional data analysis. International Journal of Computer Mathematics, 2011, 88, 1941-1948.	1.0	1
107	Variable selection in regression models used to analyse Global Positioning System accuracy in forest environments. Applied Mathematics and Computation, 2012, 219, 2220-2230.	1.4	1
108	Detection of Outliers in Pollutant Emissions from the Soto de Ribera Coal-Fired Plant Using Functional Data Analysis: A Case Study in Northern Spain. Proceedings (mdpi), 2018, 2, .	0.2	1

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109	Nonparametric location-scale model for the joint forecasting of $\text{SO}_2$ and $\text{NO}_x$ pollution episodes. Stochastic Environmental Research and Risk Assessment, 2021, 35, 231-244.	1.9	1
110	Managing Heterogeneity in Time Series Prediction. , 2019, , 366-369.		1
111	Variography for Model Selection in Local Polynomial Regression with Spatial Data. Mathematical Modelling and Algorithms, 2005, 4, 237-252.	0.5	0
112	Managing distribution changes in time series prediction. Journal of Computational and Applied Mathematics, 2006, 191, 206-215.	1.1	0
113	Calibration of a Photogrammetric System for Semiautomatic Measurement: CaM-DisT <sup>®</sup> . Key Engineering Materials, 2007, 364-366, 259-264.	0.4	0
114	A Bootstrap-Based Covariate Selection Method for Modeling the Risk of Lightning-Induced Fires at a Local Scale: A Case Study in Northwest Spain. Human and Ecological Risk Assessment (HERA), 2013, 19, 254-267.	1.7	0
115	PM10 modeling in the Oviedo urban area (Northern Spain) by using multivariate adaptive regression splines. , 2014, , .		0
116	A study of the roughness and curvature in 3D point clouds to extract vertical and horizontal surfaces. , 2015, , .		0
117	Automatic road edge detection from Mobile Laser Scanning (MLS). , 2016, , .		0
118	Detecting imperceptible movements in structures by means of video magnification. , 2017, , .		0
119	Functional Location-Scale Model to Forecast Bivariate Pollution Episodes. Mathematics, 2020, 8, 941.	1.1	0
120	Modelling energy performance using a new hybrid DE/MARS-based approach for fossil-fuel thermal power stations. Environmental Science and Pollution Research, 2021, 28, 4417-4429.	2.7	0
121	Detection and magnification of bridge displacements using video images. Proceedings of SPIE, 2016, , .	0.8	0