

Heiner Kuhlmann

List of Publications by Citations

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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.

69
papers

1,335
citations

19
h-index

35
g-index

72
ext. papers

1,581
ext. citations

2.8
avg, IF

4.94
L-index

#	Paper	IF	Citations
69	Low-cost 3D systems: suitable tools for plant phenotyping. <i>Sensors</i> , 2014 , 14, 3001-18	3.8	170
68	Surface feature based classification of plant organs from 3D laserscanned point clouds for plant phenotyping. <i>BMC Bioinformatics</i> , 2013 , 14, 238	3.6	126
67	High-precision laser scanning system for capturing 3D plant architecture and analysing growth of cereal plants. <i>Biosystems Engineering</i> , 2014 , 121, 1-11	4.8	123
66	Accuracy analysis of a multi-view stereo approach for phenotyping of tomato plants at the organ level. <i>Sensors</i> , 2015 , 15, 9651-65	3.8	75
65	Automated analysis of barley organs using 3D laser scanning: an approach for high throughput phenotyping. <i>Sensors</i> , 2014 , 14, 12670-86	3.8	65
64	Real-time single-frequency GPS/MEMS-IMU attitude determination of lightweight UAVs. <i>Sensors</i> , 2015 , 15, 26212-35	3.8	63
63	Generation and application of hyperspectral 3D plant models: methods and challenges. <i>Machine Vision and Applications</i> , 2016 , 27, 611-624	2.8	50
62	Calibration of hyperspectral close-range pushbroom cameras for plant phenotyping. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015 , 106, 172-182	11.8	49
61	An automated field phenotyping pipeline for application in grapevine research. <i>Sensors</i> , 2015 , 15, 4823-368	3.8	39
60	Phenoliner: A New Field Phenotyping Platform for Grapevine Research. <i>Sensors</i> , 2017 , 17,	3.8	36
59	Development of an instantaneous GNSS/MEMS attitude determination system. <i>GPS Solutions</i> , 2013 , 17, 129-138	4.4	34
58	Counting of grapevine berries in images via semantic segmentation using convolutional neural networks. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 164, 73-83	11.8	33
57	Towards Automated Large-Scale 3D Phenotyping of Vineyards under Field Conditions. <i>Sensors</i> , 2016 , 16,	3.8	33
56	Challenges and Present Fields of Action at Laser Scanner Based Deformation Analyses. <i>Journal of Applied Geodesy</i> , 2016 , 10,	0.9	31
55	How to Efficiently Determine the Range Precision of 3D Terrestrial Laser Scanners. <i>Sensors</i> , 2019 , 19,	3.8	26
54	Limits of active laser triangulation as an instrument for high precision plant imaging. <i>Sensors</i> , 2014 , 14, 2489-509	3.8	23
53	Improved area-based deformation analysis of a radio telescope's main reflector based on terrestrial laser scanning. <i>Journal of Applied Geodesy</i> , 2015 , 9, 1-14	0.9	22

52	Solifluction meets vegetation: the role of biogeomorphic feedbacks for turf-banked solifluction lobe development. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 1623-1635	3.7	21
51	Towards System Calibration of Panoramic Laser Scanners from a Single Station. <i>Sensors</i> , 2017 , 17,	3.8	19
50	Decreasing the Uncertainty of the Target Center Estimation at Terrestrial Laser Scanning by Choosing the Best Algorithm and by Improving the Target Design. <i>Remote Sensing</i> , 2019 , 11, 845	5	17
49	Fast and effective online pose estimation and mapping for UAVs 2016 ,		17
48	Aiming at self-calibration of terrestrial laser scanners using only one single object and one single scan. <i>Journal of Applied Geodesy</i> , 2014 , 8,	0.9	16
47	Estimation of Focal Length Variations of a 100-m Radio Telescope's Main Reflector by Laser Scanner Measurements. <i>Journal of Surveying Engineering, - ASCE</i> , 2012 , 138, 126-135	1.3	15
46	Impact of spatial correlations on the surface estimation based on terrestrial laser scanning. <i>Journal of Applied Geodesy</i> , 2017 , 11,	0.9	14
45	GPS Multipath Analysis Using Fresnel Zones. <i>Sensors</i> , 2018 , 19,	3.8	14
44	Terrestrial Laser Scanner Two-Face Measurements for Analyzing the Elevation-Dependent Deformation of the Onsala Space Observatory 20-m Radio Telescope's Main Reflector in a Bundle Adjustment. <i>Sensors</i> , 2017 , 17,	3.8	13
43	Biased and Unbiased Estimates Based on Laser Scans of Surfaces with Unknown Deformations. <i>Journal of Applied Geodesy</i> , 2014 , 8,	0.9	13
42	Deformation Detection in the GPS Real-Time Series by the Multiple Kalman Filters Model. <i>Journal of Surveying Engineering, - ASCE</i> , 2010 , 136, 157-164	1.3	13
41	Modeling the Beam Deflection of a Gantry Crane under Load. <i>Journal of Surveying Engineering, - ASCE</i> , 2014 , 140, 52-59	1.3	12
40	Development, Calibration and Evaluation of a Portable and Direct Georeferenced Laser Scanning System for Kinematic 3D Mapping. <i>Journal of Applied Geodesy</i> , 2015 , 9,	0.9	11
39	Design and Evaluation of a Permanently Installed Plane-Based Calibration Field for Mobile Laser Scanning Systems. <i>Remote Sensing</i> , 2020 , 12, 555	5	10
38	Strategy for Determining the Stochastic Distance Characteristics of the 2D Laser Scanner Z + F Profiler 9012A with Special Focus on the Close Range. <i>Sensors</i> , 2018 , 18,	3.8	9
37	A multi-resolution approach for an automated fusion of different low-cost 3D sensors. <i>Sensors</i> , 2014 , 14, 7563-79	3.8	9
36	Direct Georeferencing for Portable Mapping Systems: In the Air and on the Ground. <i>Journal of Surveying Engineering, - ASCE</i> , 2017 , 143, 04017010	1.3	8
35	Dealing with systematic laser scanner errors due to misalignment at area-based deformation analyses. <i>Journal of Applied Geodesy</i> , 2018 , 12, 169-185	0.9	8

34	Designing and Evaluating a User-Oriented Calibration Field for the Target-Based Self-Calibration of Panoramic Terrestrial Laser Scanners. <i>Remote Sensing</i> , 2020 , 12, 15	5	7
33	Direkte Georeferenzierung von MAVs (Micro Aerial Vehicles) - Systementwurf, Systemkalibrierung und erste Tests. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2014 , 2014, 227-237		7
32	High-Precision Surface Inspection: Uncertainty Evaluation within an Accuracy Range of 15 μ m with Triangulation-based Laser Line Scanners. <i>Journal of Applied Geodesy</i> , 2014 , 8,	0.9	7
31	Sensitivity Analysis and Minimal Measurement Geometry for the Target-Based Calibration of High-End Panoramic Terrestrial Laser Scanners. <i>Remote Sensing</i> , 2019 , 11, 1519	5	6
30	Empirical assessment of obstruction adaptive elevation masks to mitigate site-dependent effects. <i>GPS Solutions</i> , 2017 , 21, 1695-1706	4.4	6
29	Automatic optimization of height network configurations for detection of surface deformations. <i>Journal of Applied Geodesy</i> , 2013 , 7,	0.9	6
28	Empirical stochastic model of detected target centroids: Influence on registration and calibration of terrestrial laser scanners. <i>Journal of Applied Geodesy</i> , 2019 , 13, 179-197	0.9	6
27	Generation and Application of Hyperspectral 3D Plant Models. <i>Lecture Notes in Computer Science</i> , 2015 , 117-130	0.9	5
26	Pheno4D: A spatio-temporal dataset of maize and tomato plant point clouds for phenotyping and advanced plant analysis. <i>PLoS ONE</i> , 2021 , 16, e0256340	3.7	5
25	Investigating the gravitational stability of a radio telescope's reference point using a terrestrial laser scanner: Case study at the Onsala Space Observatory 20-m radio telescope. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019 , 149, 67-76	11.8	4
24	Increasing Spatio-Temporal Resolution for Monitoring Alpine Solifluction Using Terrestrial Laser Scanners and 3D Vector Fields. <i>Remote Sensing</i> , 2021 , 13, 1192	5	4
23	Laser Scanning Based Growth Analysis of Plants as a New Challenge for Deformation Monitoring. <i>Journal of Applied Geodesy</i> , 2016 , 10,	0.9	4
22	Detecting and analyzing fault edges in sampled ground movements. <i>Applied Geomatics</i> , 2015 , 7, 103-114	2.2	3
21	Measuring Leaf Thickness with 3D Close-Up Laser Scanners: Possible or Not?. <i>Journal of Imaging</i> , 2017 , 3, 22	3.1	3
20	Magnetic Field Sensor Calibration for Attitude Determination. <i>Journal of Applied Geodesy</i> , 2014 , 8,	0.9	3
19	A priori vs. In-situ Terrestrial Laser Scanner Calibration in the Context of the Instability of Calibration Parameters. <i>Springer Proceedings in Earth and Environmental Sciences</i> , 2021 , 128-141	0.2	3
18	On the applicability of a scan-based mobile mapping system for monitoring the planarity and subsidence of road surfaces [Pilot study on the A44n motorway in Germany. <i>Journal of Applied Geodesy</i> , 2020 , 14, 39-54	0.9	3
17	Quality Analysis of Direct Georeferencing in Aspects of Absolute Accuracy and Precision for a UAV-Based Laser Scanning System. <i>Remote Sensing</i> , 2021 , 13, 3564	5	3

16	Temporal Upsampling of Point Cloud Sequences by Optimal Transport for Plant Growth Visualization. <i>Computer Graphics Forum</i> , 2020 , 39, 167-179	2.4	2
15	Investigations on the Influence of Antenna Near-field Effects and Satellite Obstruction on the Uncertainty of GNSS-based Distance Measurements. <i>Journal of Applied Geodesy</i> , 2016 , 10,	0.9	2
14	Flächenhafte Abtastung mit Laserscanning. <i>Springer Reference Naturwissenschaften</i> , 2017 , 167-212	0.2	2
13	Deformation analysis of a reference wall towards the uncertainty investigation of terrestrial laser scanners. <i>Journal of Applied Geodesy</i> , 2021 , 15, 189-206	0.9	2
12	Automatic Differentiation of Damaged and Unharmed Grapes Using RGB Images and Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2020 , 347-359	0.9	1
11	Assessing the Temporal Stability of Terrestrial Laser Scanners During Long-Term Measurements. <i>Springer Proceedings in Earth and Environmental Sciences</i> , 2021 , 69-84	0.2	1
10	Statistical shape analysis of tap roots: a methodological case study on laser scanned sugar beets. <i>BMC Bioinformatics</i> , 2020 , 21, 335	3.6	1
9	Accurate georeferencing of TLS point clouds with short GNSS observation durations even under challenging measurement conditions. <i>Journal of Applied Geodesy</i> , 2018 , 12, 289-301	0.9	1
8	Plant, space and time - linked together in an integrative and scalable data management system for phenomic approaches in agronomic field trials. <i>Plant Methods</i> , 2020 , 16, 55	5.8	0
7	Image-based analysis of yield parameters in viticulture. <i>Biosystems Engineering</i> , 2022 , 218, 94-109	4.8	0
6	Ingenieurgeodäsie Eine Einführung. <i>Springer Reference Naturwissenschaften</i> , 2017 , 1-22	0.2	
5	Empirical Evaluation of Terrestrial Laser Scanner Calibration Strategies: Manufacturer-Based, Target-Based and Keypoint-Based. <i>Springer Proceedings in Earth and Environmental Sciences</i> , 2021 , 41-56 ^{0.2}		
4	Mobile Multisensorsysteme 2015 , 1-36		
3	Flächenhafte Abtastung mit Laserscanning 2015 , 1-46		
2	Ingenieurgeodäsie Eine Einführung 2015 , 1-22		
1	Mobile Multisensorsysteme. <i>Springer Reference Naturwissenschaften</i> , 2017 , 93-129	0.2	