

Martin Rutzinger

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,520
citations

279701

23
h-index

233338

45
g-index

94
all docs

94
docs citations

94
times ranked

2707
citing authors

#	ARTICLE	IF	CITATIONS
1	Correspondence-driven plane-based M3C2 for lower uncertainty in 3D topographic change quantification. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 183, 541-559.	4.9	17
2	Spatial assessment of probable recharge areas “ investigating the hydrogeological controls of an active deep-seated gravitational slope deformation. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 2219-2237.	1.5	5
3	Shallow erosion on grassland slopes in the European Alps “ Geomorphological classification, spatio-temporal analysis, and understanding snow and vegetation impacts. <i>Geomorphology</i> , 2021, 373, 107446.	1.1	19
4	Exploring the potential of land surface phenology and seasonal cloud free composites of one year of Sentinel-2 imagery for tree species mapping in a mountainous region. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 94, 102208.	1.4	31
5	Spatio-temporal assessment of the hydrological drivers of an active deep-seated gravitational slope deformation: The VÅngelsberg landslide in Tyrol (Austria). <i>Earth Surface Processes and Landforms</i> , 2021, 46, 1865-1881.	1.2	12
6	An overview of monitoring methods for assessing the performance of nature-based solutions against natural hazards. <i>Earth-Science Reviews</i> , 2021, 217, 103603.	4.0	72
7	Ethical challenges of researching emergent socio-material-technological phenomena: insights from an interdisciplinary mixed-methods project using mobile eye-tracking. <i>Journal of Information Communication and Ethics in Society</i> , 2021, 19, 391-408.	1.0	2
8	Systematic Water Fraction Estimation for a Global and Daily Surface Water Time-Series. <i>Remote Sensing</i> , 2021, 13, 2675.	1.8	2
9	Nature-based solutions efficiency evaluation against natural hazards: Modelling methods, advantages and limitations. <i>Science of the Total Environment</i> , 2021, 784, 147058.	3.9	87
10	Determining Temporal Uncertainty of a Global Inland Surface Water Time Series. <i>Remote Sensing</i> , 2021, 13, 3454.	1.8	3
11	Using automated vegetation cover estimation from close-range photogrammetric point clouds to compare vegetation location properties in mountain terrain. <i>GIScience and Remote Sensing</i> , 2021, 58, 120-137.	2.4	4
12	Towards an operationalisation of nature-based solutions for natural hazards. <i>Science of the Total Environment</i> , 2020, 731, 138855.	3.9	105
13	The Institute for Interdisciplinary Mountain Research: Connecting Minds Across Borders in Science and Societies. <i>Mountain Research and Development</i> , 2020, 40, .	0.4	0
14	Multi-temporal 3D point cloud-based quantification and analysis of geomorphological activity at an alpine rock glacier using airborne and terrestrial LiDAR. <i>Permafrost and Periglacial Processes</i> , 2019, 30, 222-238.	1.5	14
15	Object-Based Point Cloud Analysis for Landslide and Erosion Monitoring. <i>Photogrammetric Engineering and Remote Sensing</i> , 2019, 85, 455-462.	0.3	5
16	Validation of Earth Observation Time-Series: A Review for Large-Area and Temporally Dense Land Surface Products. <i>Remote Sensing</i> , 2019, 11, 2616.	1.8	25
17	Multi-temporal fine-scale modelling of <i>Larix decidua</i> forest plots using terrestrial LiDAR and hemispherical photographs. <i>Remote Sensing of Environment</i> , 2018, 206, 189-204.	4.6	14
18	Dense image matching of terrestrial imagery for deriving high-resolution topographic properties of vegetation locations in alpine terrain. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 66, 146-158.	1.4	9

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19	Derivation of Three-Dimensional Displacement Vectors from Multi-Temporal Long-Range Terrestrial Laser Scanning at the Reissenschuh Landslide (Tyrol, Austria). <i>Remote Sensing</i> , 2018, 10, 1688.	1.8	24
20	Sentinel-1 and Ground-Based Sensors for Continuous Monitoring of the Corvara Landslide (South Tyrol, Austria). <i>Remote Sensing</i> , 2018, 10, 1688.	1.8	23
21	Automated Segmentation of Leaves From Deciduous Trees in Terrestrial Laser Scanning Point Clouds. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 1456-1460.	1.4	22
22	Data requirements for the assessment of shallow landslide susceptibility using logistic regression. <i>Remote Sensing</i> , 2018, 10, 2139-2146.		0
23	Object-based classification of terrestrial laser scanning point clouds for landslide monitoring. <i>Photogrammetric Record</i> , 2017, 32, 377-397.	0.4	46
24	Water content dynamics at plot scale – comparison of time-lapse electrical resistivity tomography monitoring and pore pressure modelling. <i>Journal of Hydrology</i> , 2017, 544, 195-209.	2.3	17
25	Calibration and Validation of a Detailed Architectural Canopy Model Reconstruction for the Simulation of Synthetic Hemispherical Images and Airborne LiDAR Data. <i>Remote Sensing</i> , 2017, 9, 220.	1.8	13
26	Sensitivity analysis and calibration of a dynamic physically based slope stability model. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 971-992.	1.5	28
27	Crowdsourcing, Citizen Science or Volunteered Geographic Information? The Current State of Crowdsourced Geographic Information. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 55.	1.4	282
28	A multi-annual landslide inventory for the assessment of shallow landslide susceptibility – Two test cases in Vorarlberg, Austria. <i>Geomorphology</i> , 2016, 259, 40-54.	1.1	37
29	A new multi-scale 3D-GIS-approach for the assessment and dissemination of solar income of digital city models. <i>Computers, Environment and Urban Systems</i> , 2016, 57, 144-154.	3.3	46
30	Data requirements for the assessment of shallow landslide susceptibility using logistic regression. <i>Remote Sensing</i> , 2016, 8, 2139-2146.		0
31	Can Low-Resolution Airborne Laser Scanning Data Be Used to Model Stream Rating Curves?. <i>Water (Switzerland)</i> , 2015, 7, 1324-1339.	1.2	7
32	Deriving 3D displacement vectors from multi-temporal airborne laser scanning data for landslide activity analyses. <i>GIScience and Remote Sensing</i> , 2015, 52, 437-461.	2.4	34
33	Digital elevation models derived from airborne laser scanning point clouds: appropriate spatial resolutions for multi-temporal characterization and quantification of geomorphological processes. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 272-284.	1.2	27
34	Data infrastructure for multitemporal airborne LiDAR point cloud analysis – Examples from physical geography in high mountain environments. <i>Computers, Environment and Urban Systems</i> , 2014, 45, 137-146.	3.3	38
35	Derivation of tree skeletons and error assessment using LiDAR point cloud data of varying quality. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 80, 39-50.	4.9	43
36	Regolith structure analysis – A contribution to understanding the local occurrence of shallow landslides (Austrian Tyrol). <i>Geomorphology</i> , 2013, 183, 5-13.	1.1	16

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37	Automated Extraction of Shallow Erosion Areas Based on Multi-Temporal Ortho-Imagery. Remote Sensing, 2013, 5, 2292-2307.	1.8	11
38	Digital Terrain Model Resolution and its Influence on Estimating the Extent of Rockfall Areas. Transactions in GIS, 2012, 16, 691-699.	1.0	6
39	Area-wide roof plane segmentation in airborne LiDAR point clouds. Computers, Environment and Urban Systems, 2012, 36, 54-64.	3.3	42
40	Accuracy of automatically extracted geomorphological breaklines from airborne lidar curvature images. Geografiska Annaler, Series A: Physical Geography, 2012, 94, 33-42.	0.6	19
41	Extraction of Vertical Walls from Mobile Laser Scanning Data for Solar Potential Assessment. Remote Sensing, 2011, 3, 650-667.	1.8	63
42	Möglichkeiten der Extraktion von Fassadengrundlinien aus mobilen Laserscannerdaten. Photogrammetrie, Fernerkundung, Geoinformation, 2011, 2011, 97-107.	1.2	23
43	Topographic airborne LiDAR in geomorphology: A technological perspective. Zeitschrift für Geomorphologie, 2011, 55, 1-29.	0.3	110
44	Tree modelling from mobile laser scanning datasets. Photogrammetric Record, 2011, 26, 361-372.	0.4	69
45	Recognizing basic structures from mobile laser scanning data for road inventory studies. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, S28-S39.	4.9	264
46	Estimating changes of riverine landscapes and riverbeds by using airborne LiDAR data and river cross-sections. Zeitschrift für Geomorphologie, 2011, 55, 51-65.	0.3	15
47	Estimation of Aboveground Biomass in Alpine Forests: A Semi-Empirical Approach Considering Canopy Transparency Derived from Airborne LiDAR Data. Sensors, 2011, 11, 278-295.	2.1	41
48	Automatic Roof Plane Detection and Analysis in Airborne Lidar Point Clouds for Solar Potential Assessment. Sensors, 2009, 9, 5241-5262.	2.1	122
49	A Comparison of Evaluation Techniques for Building Extraction From Airborne Laser Scanning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2009, 2, 11-20.	2.3	261
50	Laser scanning - a paradigm change in topographic data acquisition for natural hazard management. , 2009, , 309-344.		5
51	Object-Based Point Cloud Analysis of Full-Waveform Airborne Laser Scanning Data for Urban Vegetation Classification. Sensors, 2008, 8, 4505-4528.	2.1	117
52	Object detection in airborne laser scanning data - an integrative approach on object-based image and point cloud analysis. Lecture Notes in Geoinformation and Cartography, 2008, , 645-662.	0.5	2
53	Extraction of building footprints from airborne laser scanning: Comparison and validation techniques. , 2007, , .		17
54	MAPPING OF 3D EYE-TRACKING IN URBAN OUTDOOR ENVIRONMENTS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-4-2021, 201-208.	0.0	2

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55	AUTOMATED AND PERMANENT LONG-RANGE TERRESTRIAL LASER SCANNING IN A HIGH MOUNTAIN ENVIRONMENT: SETUP AND FIRST RESULTS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2021, 153-160.	0.0	9
56	CLOSE-RANGE SENSING TECHNIQUES IN ALPINE TERRAIN. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-6, 15-22.	0.0	10
57	TRAINING IN INNOVATIVE TECHNOLOGIES FOR CLOSE-RANGE SENSING IN ALPINE TERRAIN. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2, 239-246.	0.0	8
58	UNMANNED AERIAL VEHICLE LASER SCANNING FOR EROSION MONITORING IN ALPINE GRASSLAND. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W5, 405-412.	0.0	8
59	COMPARISON AND TIME SERIES ANALYSIS OF LANDSLIDE DISPLACEMENT MAPPED BY AIRBORNE, TERRESTRIAL AND UNMANNED AERIAL VEHICLE BASED PLATFORMS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W5, 421-428.	0.0	7
60	ASSESSMENT OF LANDSLIDE-INDUCED DISPLACEMENT AND DEFORMATION OF ABOVE-GROUND OBJECTS USING UAV-BORNE AND AIRBORNE LASER SCANNING DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W5, 461-467.	0.0	19
61	SENSOR- AND SCENE-GUIDED INTEGRATION OF TLS AND PHOTOGRAMMETRIC POINT CLOUDS FOR LANDSLIDE MONITORING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2, 1243-1250.	0.2	11
62	MULTITEMPORAL ANALYSIS OF OBJECTS IN 3D POINT CLOUDS FOR LANDSLIDE MONITORING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2, 691-697.	0.2	9
63	EVALUATING THE POTENTIAL OF MULTISPECTRAL AIRBORNE LIDAR FOR TOPOGRAPHIC MAPPING AND LAND COVER CLASSIFICATION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-3/W5, 113-119.	0.0	57
64	Eigenvalue and graph-based object extraction from mobile laser scanning point clouds. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5/W2, 55-60.	0.0	28
65	MAPPING ERODED AREAS ON MOUNTAIN GRASSLAND WITH TERRESTRIAL PHOTOGRAMMETRY AND OBJECT-BASED IMAGE ANALYSIS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-5, 137-144.	0.0	3
66	CLOSE-RANGE SENSING TECHNIQUES IN ALPINE TERRAIN. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-6, 15-22.	0.0	2
67	MAPPING ALPINE VEGETATION LOCATION PROPERTIES BY DENSE MATCHING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B5, 881-886.	0.2	1
68	DETECTION OF COLLAPSED BUILDINGS BY CLASSIFYING SEGMENTED AIRBORNE LASER SCANNER DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XXXVIII-5/W12, 307-312.	0.2	11
69	COMPREHENSIVE SPECTRAL SIGNAL INVESTIGATION OF A LARCH FOREST COMBINING GROUND- AND SATELLITE-BASED MEASUREMENTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 671-678.	0.2	1
70	MAPPING ERODED AREAS ON MOUNTAIN GRASSLAND WITH TERRESTRIAL PHOTOGRAMMETRY AND OBJECT-BASED IMAGE ANALYSIS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-5, 137-144.	0.0	5
71	PREFACE " ISPRS WORKSHOP LASER SCANNING 2019. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W5, 313-315.	0.0	0
72	PREFACE " ISPRS WORKSHOP LASER SCANNING 2019. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 915-917.	0.2	0

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73	SIMULATING UNMANNED-AERIAL-VEHICLE BASED LASER SCANNING DATA FOR EFFICIENT MISSION PLANNING IN COMPLEX TERRAIN. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 943-950.	0.2	4
74	TRAINING IN INNOVATIVE TECHNOLOGIES FOR CLOSE-RANGE SENSING IN ALPINE TERRAIN – 3RD EDITION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B5-2020, 243-250.	0.2	1
75	3D POINT ERRORS AND CHANGE DETECTION ACCURACY OF UNMANNED AERIAL VEHICLE LASER SCANNING DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2020, 765-772.	0.0	3
76	VEGETATION COVER MAPPING FROM RGB WEBCAM TIME SERIES FOR LAND SURFACE EMISSIVITY RETRIEVAL IN HIGH MOUNTAIN AREAS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2022, 367-374.	0.0	0
77	AIRBORNE LASER SCANNING CHANGE DETECTION FOR QUANTIFYING GEOMORPHOLOGICAL PROCESSES IN HIGH MOUNTAIN REGIONS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2022, 391-398.	0.0	0
78	EVALUATION OF UAV-BORNE PHOTOGRAMMETRY AND LASER SCANNING FOR 3D TOPOGRAPHIC CHANGE ANALYSIS AT AN ACTIVE ROCK GLACIER. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2022, 1109-1116.	0.2	2
79	THE STABILITY OF A PERMANENT TERRESTRIAL LASER SCANNING SYSTEM – A CASE STUDY WITH HOURLY SCANS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2022, 1093-1099.	0.2	0