

David Belton

List of Publications by Year in descending order

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43
papers

889
citations

623574

14
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677027

22
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43
all docs

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43
times ranked

1126
citing authors

#	ARTICLE	IF	CITATIONS
1	Outlier detection and robust normal-curvature estimation in mobile laser scanning 3D point cloud data. <i>Pattern Recognition</i> , 2015, 48, 1404-1419.	5.1	136
2	Early human occupation of a maritime desert, Barrow Island, North-West Australia. <i>Quaternary Science Reviews</i> , 2017, 168, 19-29.	1.4	100
3	Robust Segmentation in Laser Scanning 3D Point Cloud Data. , 2012, , .		79
4	Robust statistical approaches for local planar surface fitting in 3D laser scanning data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 96, 106-122.	4.9	66
5	Robust cylinder fitting in laser scanning point cloud data. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 138, 632-651.	2.5	46
6	Robust Segmentation for Large Volumes of Laser Scanning Three-Dimensional Point Cloud Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 4790-4805.	2.7	45
7	Robust Locally Weighted Regression Techniques for Ground Surface Points Filtering in Mobile Laser Scanning Three Dimensional Point Cloud Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 2181-2193.	2.7	37
8	A rigorous cylinder-based self-calibration approach for terrestrial laser scanners. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 99, 84-99.	4.9	35
9	Seed and Seedling Detection Using Unmanned Aerial Vehicles and Automated Image Classification in the Monitoring of Ecological Recovery. <i>Drones</i> , 2019, 3, 53.	2.7	31
10	Pilbara rock art: laser scanning, photogrammetry and 3D photographic reconstruction as heritage management tools. <i>Heritage Science</i> , 2017, 5, .	1.0	30
11	A Closed-Form Expression of the Positional Uncertainty for 3D Point Clouds. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009, 31, 577-590.	9.7	28
12	Methodological Ambiguity and Inconsistency Constrain Unmanned Aerial Vehicles as A Silver Bullet for Monitoring Ecological Restoration. <i>Remote Sensing</i> , 2019, 11, 1180.	1.8	27
13	DIAGNOSTIC-ROBUST STATISTICAL ANALYSIS FOR LOCAL SURFACE FITTING IN 3D POINT CLOUD DATA. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, 1-3, 269-274.	0.0	21
14	Building detection and regularisation using DSM and imagery information. <i>Photogrammetric Record</i> , 2019, 34, 85-107.	0.4	18
15	Planar surface detection for sparse and heterogeneous mobile laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 151, 141-161.	4.9	17
16	Multi-Sensor UAV Tracking of Individual Seedlings and Seedling Communities at Millimetre Accuracy. <i>Drones</i> , 2019, 3, 81.	2.7	17
17	COMPARISON OF UAV LIDAR AND IMAGERY FOR BEACH MONITORING. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W13, 589-596.	0.2	17
18	Processing tree point clouds using Gaussian Mixture Models. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, II-5/W2, 43-48.	0.0	16

#	ARTICLE	IF	CITATIONS
19	Automatic Point Cloud Registration Using a Single Octagonal Lamp Pole. Photogrammetric Engineering and Remote Sensing, 2016, 82, 257-269.	0.3	14
20	NEW DTM EXTRACTION APPROACH FROM AIRBORNE IMAGES DERIVED DSM. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 75-82.	0.2	14
21	Temporal Analysis and Automatic Calibration of the Velodyne HDL-32E LiDAR System. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5/W2, 61-66.	0.0	12
22	Survey Accuracy Analysis of a Hand-held Mobile LiDAR Device for Cultural Heritage Documentation. Photogrammetrie, Fernerkundung, Geoinformation, 2016, 2016, 153-165.	1.2	10
23	Pre-processing procedures for raw point clouds from terrestrial laser scanners. Journal of Spatial Science, 2007, 52, 65-74.	1.0	9
24	Robust Locally Weighted Regression For Ground Surface Extraction In Mobile Laser Scanning 3D Data. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5/W2, 217-222.	0.0	9
25	CLASSIFICATION AND REPRESENTATION OF COMMONLY USED ROOFING MATERIAL USING MULTISENSORIAL AERIAL DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1, 217-224.	0.2	6
26	Semantically Enhanced 3D Building Model Reconstruction from Terrestrial Laser-Scanning Data. Journal of Surveying Engineering, - ASCE, 2017, 143, 04017015.	1.0	5
27	COMPARATIVE STUDY OF AUTOMATIC PLANE FITTING REGISTRATION FOR MLS SPARSE POINT CLOUDS WITH DIFFERENT PLANE SEGMENTATION METHODS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W4, 115-122.	0.0	5
28	ACCURACY ASSESSMENT OF GO PRO HERO 3 (BLACK) CAMERA IN UNDERWATER ENVIRONMENT. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B5, 477-483.	0.2	5
29	Robust Outlier Detection and Saliency Features Estimation in Point Cloud Data. , 2013, , .		4
30	MODEL-TO-IMAGE REGISTRATION AND AUTOMATIC TEXTURE MAPPING USING A VIDEO SEQUENCE TAKEN BY A MINI UAV. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W1, 151-156.	0.2	4
31	Diagnostics based principal component analysis for robust plane fitting in laser data. , 2014, , .		3
32	Non-parametric belief propagation for mobile mapping sensor fusion. Geo-Spatial Information Science, 2016, 19, 195-201.	2.4	3
33	Review of mobile laser scanning target-free registration methods for urban areas using improved error metrics. Photogrammetric Record, 2019, 34, 282-303.	0.4	3
34	Grammar-based Automatic 3D Model Reconstruction from Terrestrial Laser Scanning Data. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-4, 335-340.	0.2	3
35	SCAN PROFILES BASED METHOD FOR SEGMENTATION AND EXTRACTION OF PLANAR OBJECTS IN MOBILE LASER SCANNING POINT CLOUDS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 351-358.	0.2	3
36	MLS-assisted validation of WorldView-2 panchromatic image for estimating Pinus sylvestris crown height. Remote Sensing Letters, 2015, 6, 125-134.	0.6	2

#	ARTICLE	IF	CITATIONS
37	APPROACH FOR THE SEMI-AUTOMATIC VERIFICATION OF 3D BUILDING MODELS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W1, 121-126.	0.2	2
38	CREATION OF 3D MODELS FROM LARGE UNSTRUCTURED IMAGE AND VIDEO DATASETS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W1, 133-137.	0.2	2
39	EVALUATION OF MODEL RECOGNITION FOR GRAMMAR-BASED AUTOMATIC 3D BUILDING MODEL RECONSTRUCTION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B4, 63-69.	0.2	2
40	MULTISPECTRAL ANALYSIS OF INDIGENOUS ROCK ART USING TERRESTRIAL LASER SCANNING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B5, 405-412.	0.2	2
41	Using AUSGeoid2020 and its error grids in surveying computations. Journal of Spatial Science, 2019, 64, 363-380.	1.0	1
42	MODELLING OF AN INEXPENSIVE 9M SATELLITE DISH FROM 3D POINT CLOUDS CAPTURED BY TERRESTRIAL LASER SCANNERS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XXXVIII-5/W12, 313-318.	0.2	0
43	INCORPORATION OF UNRELIABLE INFORMATION INTO PHOTOGRAMMETRIC RECONSTRUCTION FOR RECOVERY OF SCALE USING NON-PARAMETRIC BELIEF PROPAGATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B5, 653-658.	0.2	0