Kourosh Khoshelham

List of Publications by Year
in descending order

90 papers	3,560 citations	218662 26 h-index	149686 56 g-index
95 all docs	95 docs citations	95 times ranked	3773 citing authors

#	Article	IF	Citations
1	Accuracy and Resolution of Kinect Depth Data for Indoor Mapping Applications. Sensors, 2012, 12, 1437-1454.	3.8	1,386
2	Indoor Localization Improved by Spatial Context—A Survey. ACM Computing Surveys, 2020, 52, 1-35.	23.0	122
3	Performance evaluation of automated approaches to building detection in multi-source aerial data. ISPRS Journal of Photogrammetry and Remote Sensing, 2010, 65, 123-133.	11.1	89
4	Effect of slope on treetop detection using a LiDAR Canopy Height Model. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 104, 44-52.	11.1	86
5	3D Modeling of Building Indoor Spaces and Closed Doors from Imagery and Point Clouds. Sensors, 2015, 15, 3491-3512.	3.8	82
6	Accurate Step Length Estimation for Pedestrian Dead Reckoning Localization Using Stacked Autoencoders. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2705-2713.	4.7	82
7	Locomotion Activity Recognition Using Stacked Denoising Autoencoders. IEEE Internet of Things Journal, 2018, 5, 2085-2093.	8.7	78
8	Real-time monitoring of construction sites: Sensors, methods, and applications. Automation in Construction, 2022, 136, 104099.	9.8	74
9	Robust and Accurate Smartphone-Based Step Counting for Indoor Localization. IEEE Sensors Journal, 2017, 17, 3453-3460.	4.7	72
10	BIM-PoseNet: Indoor camera localisation using a 3D indoor model and deep learning from synthetic images. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 150, 245-258.	11.1	68
11	Assessment of Relative Accuracy of AHN-2 Laser Scanning Data Using Planar Features. Sensors, 2010, 10, 8198-8214.	3.8	62
12	Evaluation of a LIDAR Land-Based Mobile Mapping System for Monitoring Sandy Coasts. Remote Sensing, 2011, 3, 1472-1491.	4.0	54
13	3D Modelling of Interior Spaces: Learning the Language of Indoor Architecture. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5, 321-326.	0.2	54
14	Influence of range measurement noise on roughness characterization of rock surfaces using terrestrial laser scanning. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 1215-1223.	5.8	50
15	Segment-Based Classification of Damaged Building Roofs in Aerial Laser Scanning Data. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1258-1262.	3.1	49
16	User-Independent Motion State Recognition Using Smartphone Sensors. Sensors, 2015, 15, 30636-30652.	3.8	44
17	Automatic Extraction of Railroad Centerlines from Mobile Laser Scanning Data. Remote Sensing, 2015, 7, 5565-5583.	4.0	44
18	Closed-form solutions for estimating a rigid motion from plane correspondences extracted from point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 114, 78-91.	11.1	42

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19	InSiNet: a deep convolutional approach to skin cancer detection and segmentation. Medical and Biological Engineering and Computing, 2022, 60, 643-662.	2.8	41
20	Vehicle Positioning in GNSS-Deprived Urban Areas by Stereo Visual-Inertial Odometry. IEEE Transactions on Intelligent Vehicles, 2018, 3, 208-217.	12.7	36
21	MS-RRFSegNet: Multiscale Regional Relation Feature Segmentation Network for Semantic Segmentation of Urban Scene Point Clouds. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8301-8315.	6.3	36
22	Efficient and Accurate Registration of Point Clouds with Plane to Plane Correspondences. , 2017, , .		35
23	Mapping Indoor Spaces by Adaptive Coarse-to-Fine Registration of RGB-D Data. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 262-266.	3.1	32
24	Quality estimation of nuts using deep learning classification of hyperspectral imagery. Computers and Electronics in Agriculture, 2021, 180, 105868.	7.7	32
25	A Split-and-Merge Technique for Automated Reconstruction of Roof Planes. Photogrammetric Engineering and Remote Sensing, 2005, 71, 855-862.	0.6	31
26	Procedural Reconstruction of 3D Indoor Models from Lidar Data Using Reversible Jump Markov Chain Monte Carlo. Remote Sensing, 2020, 12, 838.	4.0	31
27	Localized Registration of Point Clouds of Botanic Trees. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 631-635.	3.1	30
28	BIM-Tracker: A model-based visual tracking approach for indoor localisation using a 3D building model. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 150, 157-171.	11.1	29
29	Individual tree extraction from urban mobile laser scanning point clouds using deep pointwise direction embedding. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 175, 326-339.	11.1	27
30	Landmark Graph-Based Indoor Localization. IEEE Internet of Things Journal, 2020, 7, 8343-8355.	8.7	26
31	A digital twin approach for geometric quality assessment of as-built prefabricated façades. Journal of Building Engineering, 2021, 41, 102377.	3.4	26
32	Comparative analysis of robust extended Kalman filter and incremental smoothing for UWB/PDR fusion positioning in NLOS environments. Acta Geodaetica Et Geophysica, 2019, 54, 157-179.	1.6	25
33	Synergy of sampling techniques and ensemble classifiers for classification of urban environments using full-waveform LiDAR data. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 277-291.	2.8	24
34	Infrastructure-Independent Indoor Localization and Navigation. ACM Computing Surveys, 2020, 52, 1-24.	23.0	24
35	A Sparsity-Based Regularization Approach for Deconvolution of Full-Waveform Airborne Lidar Data. Remote Sensing, 2016, 8, 648.	4.0	23
36	Sensors for Indoor Mapping and Navigation. Sensors, 2016, 16, 655.	3.8	23

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37	Automated localization of a laser scanner in indoor environments using planar objects. , 2010, , .		22
38	Geometric accuracy and semantic richness in heritage BIM: A review. Digital Applications in Archaeology and Cultural Heritage, 2020, 19, e00166.	1.3	22
39	Unsupervised scene adaptation for semantic segmentation of urban mobile laser scanning point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 169, 253-267.	11.1	21
40	A Recurrent Deep Network for Estimating the Pose of Real Indoor Images from Synthetic Image Sequences. Sensors, 2020, 20, 5492.	3.8	21
41	Indirect Georeferencing of Terrestrial Laser Scanning Data using Control Lines. Photogrammetric Record, 2013, 28, 276-292.	0.4	19
42	A Robust and Adaptive Complementary Kalman Filter Based on Mahalanobis Distance for Ultra Wideband/Inertial Measurement Unit Fusion Positioning. Sensors, 2018, 18, 3435.	3.8	18
43	Vibration measurement of a model wind turbine using high speed photogrammetry. Proceedings of SPIE, 2011, , .	0.8	17
44	Door recognition in cluttered building interiors using imagery and lidar data. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5, 203-209.	0.2	17
45	A multiclass TrAdaBoost transfer learning algorithm for the classification of mobile lidar data. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 166, 118-127.	11.1	16
46	Extraction and accuracy assessment of high-resolution DEM and derived orthoimages from ALOS-PRISM data over Sahel-Doukkala (Morocco). Earth Science Informatics, 2017, 10, 197-217.	3.2	15
47	Impact of spatial resolution, interpolation and filtering algorithms on DEM accuracy for geomorphometric research: a case study from Sahel-Doukkala, Morocco. Modeling Earth Systems and Environment, 2018, 4, 1537-1554.	3.4	15
48	Global Registration of Terrestrial Laser Scanner Point Clouds Using Plane-to-Plane Correspondences. Remote Sensing, 2020, 12, 1127.	4.0	14
49	INDOOR NAVIGATION FROM POINT CLOUDS: 3D MODELLING AND OBSTACLE DETECTION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B4, 275-281.	0.2	14
50	Omnidirectional visual-inertial odometry using multi-state constraint Kalman filter. , 2017, , .		13
51	Locomotion activity recognition: A deep learning approach. , 2017, , .		13
52	Pose estimation by Omnidirectional Visual-Inertial Odometry. Robotics and Autonomous Systems, 2018, 105, 26-37.	5.1	13
53	Obstacle-Aware Indoor Pathfinding Using Point Clouds. ISPRS International Journal of Geo-Information, 2019, 8, 233.	2.9	13
54	Direct generation of level of service maps from images using convolutional and long short-term memory networks. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 300-308.	4.2	13

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55	Role of Tie Points in Integrated Sensor Orientation for Photogrammetric Map Compilation. Photogrammetric Engineering and Remote Sensing, 2009, 75, 305-311.	0.6	12
56	Multi-view crowd congestion monitoring system based on an ensemble of convolutional neural network classifiers. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2020, 24, 437-448.	4.2	11
57	Results of the ISPRS benchmark on indoor modelling. ISPRS Open Journal of Photogrammetry and Remote Sensing, 2021, 2, 100008.	3.1	11
58	A Model-Based Approach to Semi-Automated Reconstruction of Buildings from Aerial Images. Photogrammetric Record, 2004, 19, 342-359.	0.4	9
59	UWB/PDR Tightly Coupled Navigation with Robust Extended Kalman Filter for NLOS Environments. Mobile Information Systems, 2018, 2018, 1-14.	0.6	9
60	Detecting Unsigned Physical Road Incidents From Driver-View Images. IEEE Transactions on Intelligent Vehicles, 2021, 6, 24-33.	12.7	9
61	Seamless Vehicle Positioning by Lidar-GNSS Integration: Standalone and Multi-Epoch Scenarios. Remote Sensing, 2021, 13, 4525.	4.0	9
62	Single-image localisation using 3D models: Combining hierarchical edge maps and semantic segmentation for domain adaptation. Automation in Construction, 2022, 136, 104152.	9.8	9
63	Improved Urban Scene Classification Using Full-Waveform Lidar. Photogrammetric Engineering and Remote Sensing, 2016, 82, 973-980.	0.6	8
64	Evaluation of 3D Laser Scanning for Estimation of Heating-Induced Volume Shrinkage and Prediction of Cooking Loss of Pork Cuboids Compared to Manual Measurements. Food and Bioprocess Technology, 2020, 13, 938-947.	4.7	8
65	EFFICIENT AND ACCURATE INDOOR LOCALIZATION USING LANDMARK GRAPHS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B2, 509-514.	0.2	8
66	A review of augmented reality visualization methods for subsurface utilities. Advanced Engineering Informatics, 2022, 51, 101498.	8.0	8
67	Sensory landmarks for indoor localization. , 2016, , .		7
68	Identifying Witness Accounts from Social Media Using Imagery. ISPRS International Journal of Geo-Information, 2017, 6, 120.	2.9	7
69	3D reconstruction of internal wood decay using photogrammetry and sonic tomography. Photogrammetric Record, 2020, 35, 357-374.	0.4	7
70	Direct 6-DoF Pose Estimation from Point-Plane Correspondences. , 2015, , .		6
71	Vehicle positioning in the absence of GNSS signals: Potential of visual-inertial odometry. , 2017, , .		6
72	Entropy based determination of optimal principal components of Airborne Prism Experiment (APEX) imaging spectrometer data for improved land cover classification. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-8, 781-786.	0.2	6

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73	Range Versus Surface Denoising of Terrestrial Laser Scanning Data for Rock Discontinuity Roughness Estimation. Rock Mechanics and Rock Engineering, 2019, 52, 3103-3117.	5.4	5
74	ZeeFi: Zero-Effort Floor Identification with Deep Learning for Indoor Localization. , 2019, , .		5
75	Application of spectral and spatial indices for specific class identification in Airborne Prism EXperiment (APEX) imaging spectrometer data for improved land cover classification. , 2016, , .		5
76	Atmospheric scene classification using CALIPSO spaceborne lidar measurements in the Middle East and North Africa (MENA), and India. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 721-735.	2.8	3
77	Technological opportunities for measuring and monitoring blue carbon initiatives in mangrove ecosystems. Remote Sensing Applications: Society and Environment, 2021, 24, 100612.	1.5	3
78	Robust iterated extended Kalman filter algorithm for foot-mounted inertial measurement units/ultrawideband fusion positioning. Journal of Applied Remote Sensing, 2019, 13, 1.	1.3	3
79	A WEIGHTED CLOSED-FORM SOLUTION FOR RGB-D DATA REGISTRATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 403-409.	0.2	3
80	EVALUATION OF WAVELET AND NON-LOCAL MEAN DENOISING OF TERRESTRIAL LASER SCANNING DATA FOR SMALL-SCALE JOINT ROUGHNESS ESTIMATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 181-186.	0.2	2
81	ReCRNet: a deep residual network for crack detection in historical buildings. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	2
82	Indoor localization and navigation independent of sensor based technologies. SIGSPATIAL Special, 2017, 9, 19-26.	2.7	1
83	Show Me a Safer Way: Detecting Anomalous Driving Behavior Using Online Traffic Footage. Infrastructures, 2019, 4, 22.	2.8	1
84	A Multi-Camera Tracker for Monitoring Pedestrians in Enclosed Environments. , 2020, , .		1
85	Decentralized management of ephemeral traffic incidents. Transactions in GIS, 2022, 26, 2188-2205.	2.3	1
86	Kaiser filter for antialiasing in digital photogrammetry. Photogrammetric Record, 2004, 19, 22-37.	0.4	0
87	MAPEAMENTO 3D DE AMBIENTES INTERNOS USANDO DADOS RGB-D. Boletim De Ciencias Geodesicas, 2015, 21, 442-464.	0.3	0
88	Pose-aware monocular localization of occluded pedestrians in 3D scene space. ISPRS Open Journal of Photogrammetry and Remote Sensing, 2021, 2, 100006.	3.1	0
89	UM MÃ‰TODO ADAPTATIVO PARA REGISTRO DE DADOS RGB-D. Boletim De Ciencias Geodesicas, 2016, 22, 132-156.	0.3	0
90	Implications of spectral and spatial features to improve the identification of specific classes. Journal of Applied Remote Sensing, 2019, 13, 1.	1.3	0