Kourosh Khoshelham

List of Publications by Year in Descending Order

89 papers	2,350 citations	21 h-index	46 g-index
95 ext. papers	2,914 ext. citations	4.6 avg, IF	5.85 L-index

#	Paper	IF	Citations
89	InSiNet: a deep convolutional approach to skin cancer detection and segmentation.. *Medical and Biological Engineering and Computing*, **2022**, 60, 643	3.1	2
88	A review of augmented reality visualization methods for subsurface utilities. *Advanced Engineering Informatics*, **2022**, 51, 101498	7.4	1
87	Single-image localisation using 3D models: Combining hierarchical edge maps and semantic segmentation for domain adaptation. *Automation in Construction*, **2022**, 136, 104152	9.6	2
86	Real-time monitoring of construction sites: Sensors, methods, and applications. *Automation in Construction*, **2022**, 136, 104099	9.6	7
85	Seamless Vehicle Positioning by Lidar-GNSS Integration: Standalone and Multi-Epoch Scenarios. *Remote Sensing*, **2021**, 13, 4525	5	2
84	ReCRNet: a deep residual network for crack detection in historical buildings. *Arabian Journal of Geosciences*, **2021**, 14, 1	1.8	
83	Pose-aware monocular localization of occluded pedestrians in 3D scene space. *ISPRS Open Journal of Photogrammetry and Remote Sensing*, **2021**, 2, 100006		
82	Results of the ISPRS benchmark on indoor modelling. *ISPRS Open Journal of Photogrammetry and Remote Sensing*, **2021**, 2, 100008		3
81	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	11.8	7
80	Detecting Unsigned Physical Road Incidents From Driver-View Images. *IEEE Transactions on Intelligent Vehicles*, **2021**, 6, 24-33	5	2
79	Quality estimation of nuts using deep learning classification of hyperspectral imagery. *Computers and Electronics in Agriculture*, **2021**, 180, 105868	6.5	7
78	A digital twin approach for geometric quality assessment of as-built prefabricated fa□des. *Journal of Building Engineering*, **2021**, 41, 102377	5.2	8
77	Technological opportunities for measuring and monitoring blue carbon initiatives in mangrove ecosystems. *Remote Sensing Applications: Society and Environment*, **2021**, 24, 100612	2.8	0
76	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	8.1	17
75	Procedural Reconstruction of 3D Indoor Models from Lidar Data Using Reversible Jump Markov Chain Monte Carlo. *Remote Sensing*, **2020**, 12, 838	5	17
74	Landmark Graph-Based Indoor Localization. *IEEE Internet of Things Journal*, **2020**, 7, 8343-8355	10.7	10
73	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	5.1	1

72	Unsupervised scene adaptation for semantic segmentation of urban mobile laser scanning point clouds. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2020**, 169, 253-267	11.8	10
71	A Recurrent Deep Network for Estimating the Pose of Real Indoor Images from Synthetic Image Sequences. *Sensors*, **2020**, 20,	3.8	9
70	A multiclass TrAdaBoost transfer learning algorithm for the classification of mobile lidar data. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2020**, 166, 118-127	11.8	7
69	Geometric accuracy and semantic richness in heritage BIM: A review. *Digital Applications in Archaeology and Cultural Heritage*, **2020**, 19, e00166	2.1	8
68	3D reconstruction of internal wood decay using photogrammetry and sonic tomography. *Photogrammetric Record*, **2020**, 35, 357-374	1.7	4
67	Global Registration of Terrestrial Laser Scanner Point Clouds Using Plane-to-Plane Correspondences. *Remote Sensing*, **2020**, 12, 1127	5	8
66	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	3.2	6
65	Show Me a Safer Way: Detecting Anomalous Driving Behavior Using Online Traffic Footage. *Infrastructures*, **2019**, 4, 22	2.6	1
64	Obstacle-Aware Indoor Pathfinding Using Point Clouds. *ISPRS International Journal of Geo-Information*, **2019**, 8, 233	2.9	9
63	Infrastructure-Independent Indoor Localization and Navigation. *ACM Computing Surveys*, **2019**, 52, 1-24	13.4	13
62	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	1.7	13
61	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	11.8	36
60	Range Versus Surface Denoising of Terrestrial Laser Scanning Data for Rock Discontinuity Roughness Estimation. *Rock Mechanics and Rock Engineering*, **2019**, 52, 3103-3117	5.7	3
59	Indoor Localization Improved by Spatial Context—A Survey. *ACM Computing Surveys*, **2019**, 52, 1-35	13.4	68
58	Robust iterated extended Kalman filter algorithm for foot-mounted inertial measurement units/ultrawideband fusion positioning. *Journal of Applied Remote Sensing*, **2019**, 13, 1	1.4	1
57	Implications of spectral and spatial features to improve the identification of specific classes. *Journal of Applied Remote Sensing*, **2019**, 13, 1	1.4	
56	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	11.8	17
55	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	3.2	13

54	ZeeFi: Zero-Effort Floor Identification with Deep Learning for Indoor Localization **2019**,		3
53	Accurate Step Length Estimation for Pedestrian Dead Reckoning Localization Using Stacked Autoencoders. *IEEE Transactions on Instrumentation and Measurement*, **2019**, 68, 2705-2713	5.2	50
52	Vehicle Positioning in GNSS-Deprived Urban Areas by Stereo Visual-Inertial Odometry. *IEEE Transactions on Intelligent Vehicles*, **2018**, 3, 208-217	5	19
51	Pose estimation by Omnidirectional Visual-Inertial Odometry. *Robotics and Autonomous Systems*, **2018**, 105, 26-37	3.5	12
50	Locomotion Activity Recognition Using Stacked Denoising Autoencoders. *IEEE Internet of Things Journal*, **2018**, 5, 2085-2093	10.7	49
49	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	7.3	21
48	A Robust and Adaptive Complementary Kalman Filter Based on Mahalanobis Distance for Ultra Wideband/Inertial Measurement Unit Fusion Positioning. *Sensors*, **2018**, 18,	3.8	12
47	UWB/PDR Tightly Coupled Navigation with Robust Extended Kalman Filter for NLOS Environments. *Mobile Information Systems*, **2018**, 2018, 1-14	1.4	7
46	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	7.3	2
45	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	3.2	10
44	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	2.5	11
43	Vehicle positioning in the absence of GNSS signals: Potential of visual-inertial odometry **2017**,		5
42	Robust and Accurate Smartphone-Based Step Counting for Indoor Localization. *IEEE Sensors Journal*, **2017**, 17, 3453-3460	4	43
41	Indoor localization and navigation independent of sensor based technologies. *SIGSPATIAL Special*, **2017**, 9, 19-26	2.3	1
40	Omnidirectional visual-inertial odometry using multi-state constraint Kalman filter **2017**,		11
39	Locomotion activity recognition: A deep learning approach **2017**,		8
38	**2017**,		11
37	Identifying Witness Accounts from Social Media Using Imagery. *ISPRS International Journal of Geo-Information*, **2017**, 6, 120	2.9	4

36	Mapping Indoor Spaces by Adaptive Coarse-to-Fine Registration of RGB-D Data. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 262-266	4.1	26
35	UM M□TODO ADAPTATIVO PARA REGISTRO DE DADOS RGB-D. *Boletim De Ciencias Geodesicas*, **2016**, 22, 132-156	1.1	
34	Application of spectral and spatial indices for specific class identification in Airborne Prism EXperiment (APEX) imaging spectrometer data for improved land cover classification **2016**,		1
33	A Sparsity-Based Regularization Approach for Deconvolution of Full-Waveform Airborne Lidar Data. *Remote Sensing*, **2016**, 8, 648	5	18
32	Improved Urban Scene Classification Using Full-Waveform Lidar. *Photogrammetric Engineering and Remote Sensing*, **2016**, 82, 973-980	1.6	7
31	Sensory landmarks for indoor localization **2016**,		5
30	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	11.8	25
29	3D modeling of building indoor spaces and closed doors from imagery and point clouds. *Sensors*, **2015**, 15, 3491-512	3.8	52
28	Effect of slope on treetop detection using a LiDAR Canopy Height Model. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2015**, 104, 44-52	11.8	63
27	MAPEAMENTO 3D DE AMBIENTES INTERNOS USANDO DADOS RGB-D. *Boletim De Ciencias Geodesicas*, **2015**, 21, 442-464	1.1	
26	User-Independent Motion State Recognition Using Smartphone Sensors. *Sensors*, **2015**, 15, 30636-52	3.8	33
25	Automatic Extraction of Railroad Centerlines from Mobile Laser Scanning Data. *Remote Sensing*, **2015**, 7, 5565-5583	5	29
24	Quantification of Rock Joint Roughness Using Terrestrial Laser Scanning **2015**, 835-838		2
23	Direct 6-DoF Pose Estimation from Point-Plane Correspondences **2015**,		4
22	3D Modelling of Interior Spaces: Learning the Language of Indoor Architecture. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, **2014**, XL-5, 321-326	2.5	30
21	Segment-Based Classification of Damaged Building Roofs in Aerial Laser Scanning Data. *IEEE Geoscience and Remote Sensing Letters*, **2013**, 10, 1258-1262	4.1	36
20	Localized Registration of Point Clouds of Botanic Trees. *IEEE Geoscience and Remote Sensing Letters* , **2013**, 10, 631-635	4.1	22
19	Indirect Georeferencing of Terrestrial Laser Scanning Data using Control Lines. *Photogrammetric Record*, **2013**, 28, 276-292	1.7	12

18	Accuracy and resolution of Kinect depth data for indoor mapping applications. *Sensors*, **2012**, 12, 1437-54	3.8	1072
17	Vibration measurement of a model wind turbine using high speed photogrammetry **2011**,		14
16	Evaluation of a LIDAR Land-Based Mobile Mapping System for Monitoring Sandy Coasts. *Remote Sensing*, **2011**, 3, 1472-1491	5	37
15	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	6	39
14	Assessment of relative accuracy of AHN-2 laser scanning data using planar features. *Sensors*, **2010**, 10, 8198-214	3.8	45
13	Automated localization of a laser scanner in indoor environments using planar objects **2010**,		16
12	Performance evaluation of automated approaches to building detection in multi-source aerial data. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2010**, 65, 123-133	11.8	66
11	Role of Tie Points in Integrated Sensor Orientation for Photogrammetric Map Compilation. *Photogrammetric Engineering and Remote Sensing*, **2009**, 75, 305-311	1.6	10
10	Automated 3D Modeling of Buildings in Suburban Areas Based on Integration of Image and Height Data **2006**, 381-393		1
9	A Split-and-Merge Technique for Automated Reconstruction of Roof Planes. *Photogrammetric Engineering and Remote Sensing*, **2005**, 71, 855-862	1.6	27
8	A Model-Based Approach to Semi-Automated Reconstruction of Buildings from Aerial Images. *Photogrammetric Record*, **2004**, 19, 342-359	1.7	9
7	Kaiser filter for antialiasing in digital photogrammetry. *Photogrammetric Record*, **2004**, 19, 22-37	1.7	
6	Door recognition in cluttered building interiors using imagery and lidar data. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*,XL-5, 203-209	2.5	13
5	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*,XL-8, 781-786	2.5	5
4	EFFICIENT AND ACCURATE INDOOR LOCALIZATION USING LANDMARK GRAPHS. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives* ,XLI-B2, 509-514	2.5	8
3	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*,XLI-B3, 181-186	2.5	2
2	A WEIGHTED CLOSED-FORM SOLUTION FOR RGB-D DATA REGISTRATION. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*,XLI-B3, 403-409	2.5	3
1	INDOOR NAVIGATION FROM POINT CLOUDS: 3D MODELLING AND OBSTACLE DETECTION. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*,XLI-B4, 275-281	2.5	12