

Michael Ying Yang

List of Publications by Year in Descending Order

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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.

109
papers

1,531
citations

18
h-index

35
g-index

130
ext. papers

2,153
ext. citations

4.8
avg, IF

5.28
L-index

#	Paper	IF	Citations
109	Weakly supervised semantic segmentation of airborne laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022 , 187, 79-100	11.8	0
108	Object Detection in Aerial Images: A Large-Scale Benchmark and Challenges. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	34
107	Exploring Dynamic Context for Multi-path Trajectory Prediction 2021 ,		6
106	CABINet: Efficient Context Aggregation Network for Low-Latency Semantic Segmentation 2021 ,		4
105	Local and global encoder network for semantic segmentation of Airborne laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021 , 176, 151-168	11.8	8
104	Self-supervised monocular depth estimation from oblique UAV videos. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021 , 176, 1-14	11.8	5
103	Video object detection with a convolutional regression tracker. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021 , 176, 139-150	11.8	4
102	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 4205-4230	4.7	17
101	Image Captioning Through Image Transformer. <i>Lecture Notes in Computer Science</i> , 2021 , 153-169	0.9	2
100	AMENet: Attentive Maps Encoder Network for trajectory prediction. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021 , 172, 253-266	11.8	9
99	Real-time Semantic Segmentation with Context Aggregation Network. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021 , 178, 124-134	11.8	7
98	Spatio-temporal 3D Residual Networks for Simultaneous Detection and Depth Estimation of CFRP Subsurface Defects in Lock-in Thermography. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	3
97	UAVid: A semantic segmentation dataset for UAV imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 165, 108-119	11.8	48
96	A Deep Learning-Based Surface Defect Inspection System Using Multiscale and Channel-Compressed Features. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 1-1	5.2	21
95	Two-stream convolutional neural network for non-destructive subsurface defect detection via similarity comparison of lock-in thermography signals. <i>NDT and E International</i> , 2020 , 112, 102246	4.1	18
94	MCENET: Multi-Context Encoder Network for Homogeneous Agent Trajectory Prediction in Mixed Traffic 2020 ,		2
93	Multi-channel residual network model for accurate estimation of spatially-varying and depth-dependent defocus kernels. <i>Optics Express</i> , 2020 , 28, 2263-2275	3.3	1

92	FairNN - Conjoint Learning of Fair Representations for Fair Decisions. <i>Lecture Notes in Computer Science</i> , 2020 , 581-595	0.9	4
91	NODIS: Neural Ordinary Differential Scene Understanding. <i>Lecture Notes in Computer Science</i> , 2020 , 636-653	0.5	0
90	Active and incremental learning for semantic ALS point cloud segmentation. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 169, 73-92	11.8	10
89	Temporally Consistent Horizon Lines 2020 ,		2
88	CONSAC: Robust Multi-Model Fitting by Conditional Sample Consensus 2020 ,		7
87	Crowd-Driven and Automated Mapping of Field Boundaries in Highly Fragmented Agricultural Landscapes of Ethiopia with Very High Spatial Resolution Imagery. <i>Remote Sensing</i> , 2019 , 11, 2082	5	5
86	A deep-learning-based approach for fast and robust steel surface defects classification. <i>Optics and Lasers in Engineering</i> , 2019 , 121, 397-405	4.6	72
85	Vehicle Detection in Aerial Images. <i>Photogrammetric Engineering and Remote Sensing</i> , 2019 , 85, 297-304	1.6	18
84	Pedestrian detection with unsupervised multispectral feature learning using deep neural networks. <i>Information Fusion</i> , 2019 , 46, 206-217	16.7	33
83	Cascaded Deep Networks With Multiple Receptive Fields for Infrared Image Super-Resolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 2310-2322	6.4	25
82	Introduction to Multimodal Scene Understanding 2019 , 1-7		1
81	Learning Convolutional Neural Networks for Object Detection with Very Little Training Data 2019 , 65-100		8
80	Multimodal Fusion Architectures for Pedestrian Detection 2019 , 101-133		
79	Accurate salient object detection via dense recurrent connections and residual-based hierarchical feature integration. <i>Signal Processing: Image Communication</i> , 2019 , 78, 103-112	2.8	2
78	Exploiting Attention for Visual Relationship Detection. <i>Lecture Notes in Computer Science</i> , 2019 , 331-344	0.9	3
77	Semantic Façade Segmentation from Airborne Oblique Images. <i>Photogrammetric Engineering and Remote Sensing</i> , 2019 , 85, 425-433	1.6	2
76	Box-level segmentation supervised deep neural networks for accurate and real-time multispectral pedestrian detection. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019 , 150, 70-79	11.8	22
75	Orientation-Aware Deep Neural Network for Real Image Super-Resolution 2019 ,		14

74	Unsupervised Domain Adaptation for Multispectral Pedestrian Detection 2019 ,		7
73	Natural Language Guided Visual Relationship Detection 2019 ,		9
72	Fusing Airborne Laser Scanning and Rapideye Sensor Parameters for Tropical Forest Biomass Estimation of Nepal 2019 ,		1
71	LIP: Learning Instance Propagation for Video Object Segmentation 2019 ,		1
70	Application of Deep Learning for Delineation of Visible Cadastral Boundaries from Remote Sensing Imagery. <i>Remote Sensing</i> , 2019 , 11, 2505	5	15
69	Detecting Building Changes between Airborne Laser Scanning and Photogrammetric Data. <i>Remote Sensing</i> , 2019 , 11, 2417	5	16
68	Deep Learning for Semantic Segmentation of UAV Videos 2019 ,		2
67	Fusion of multispectral data through illumination-aware deep neural networks for pedestrian detection. <i>Information Fusion</i> , 2019 , 50, 148-157	16.7	77
66	The edge-preservation multi-classifier relearning framework for the classification of high-resolution remotely sensed imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018 , 138, 57-73	11.8	17
65	A patch-based method for the evaluation of dense image matching quality. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018 , 70, 25-34	7.3	9
64	Exploiting fusion architectures for multispectral pedestrian detection and segmentation. <i>Applied Optics</i> , 2018 , 57, D108-D116	1.7	12
63	Single-image-based nonuniformity correction of uncooled long-wave infrared detectors: a deep-learning approach. <i>Applied Optics</i> , 2018 , 57, D155-D164	1.7	37
62	Video Event Recognition and Anomaly Detection by Combining Gaussian Process and Hierarchical Dirichlet Process Models. <i>Photogrammetric Engineering and Remote Sensing</i> , 2018 , 84, 203-214	1.6	8
61	Special Issue Foreword Remote Sensing of Urban Environment (I). <i>Photogrammetric Engineering and Remote Sensing</i> , 2018 , 84, 679-679	1.6	
60	Tea Garden Detection from High-Resolution Imagery Using a Scene-Based Framework. <i>Photogrammetric Engineering and Remote Sensing</i> , 2018 , 84, 723-731	1.6	5
59	Object Recognition from very few Training Examples for Enhancing Bicycle Maps 2018 ,		3
58	Deep Learning for Vehicle Detection in Aerial Images 2018 ,		17
57	Global robust image rotation from combined weighted averaging. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 127, 89-101	11.8	8

56	On support relations and semantic scene graphs. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 131, 15-25	11.8	23
55	Analyzing modular CNN architectures for joint depth prediction and semantic segmentation 2017 ,		28
54	Triplet-Based Deep Similarity Learning for Person Re-Identification 2017 ,		15
53	Spatially Adaptive Column Fixed-Pattern Noise Correction in Infrared Imaging System Using 1D Horizontal Differential Statistics. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-13	1.8	9
52	Contour Detection for UAV-Based Cadastral Mapping. <i>Remote Sensing</i> , 2017 , 9, 171	5	29
51	Motion Segmentation Using Global and Local Sparse Subspace Optimization. <i>Photogrammetric Engineering and Remote Sensing</i> , 2017 , 83, 769-778	1.6	2
50	Deep Learning for Vanishing Point Detection Using an Inverse Gnomonic Projection. <i>Lecture Notes in Computer Science</i> , 2017 , 17-28	0.9	12
49	Bi-layer dictionary learning for remote sensing image classification 2016 ,		1
48	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 2840-2843	4.7	
47	Unsupervised Deep Domain Adaptation for Pedestrian Detection. <i>Lecture Notes in Computer Science</i> , 2016 , 676-691	0.9	8
46	Real-time RGB-D based template matching pedestrian detection 2016 ,		2
45	Effective Strip Noise Removal for Low-Textured Infrared Images Based on 1-D Guided Filtering. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2016 , 26, 2176-2188	6.4	37
44	Brain tumor classification and segmentation using sparse coding and dictionary learning. <i>Biomedizinische Technik</i> , 2016 , 61, 413-29	1.3	11
43	Mapping Auto-context Decision Forests to Deep ConvNets for Semantic Segmentation 2016 ,		5
42	Can Ground Truth Label Propagation from Video Help Semantic Segmentation?. <i>Lecture Notes in Computer Science</i> , 2016 , 804-820	0.9	6
41	Review of Automatic Feature Extraction from High-Resolution Optical Sensor Data for UAV-Based Cadastral Mapping. <i>Remote Sensing</i> , 2016 , 8, 689	5	83
40	Uncertainty-Driven 6D Pose Estimation of Objects and Scenes from a Single RGB Image 2016 ,		205
39	Smart Ubiquitous Projection 2016 ,		1

38	3D automatic liver segmentation using feature-constrained Mahalanobis distance in CT images. <i>Biomedizinische Technik</i> , 2016 , 61, 401-12	1.3	4
37	Alzheimer's disease detection via automatic 3D caudate nucleus segmentation using coupled dictionary learning with level set formulation. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 137, 329-339	6.9	4
36	Descriptor evaluation and feature regression for multimodal image analysis. <i>Machine Vision and Applications</i> , 2015 , 26, 975-990	2.8	2
35	Joint Object Segmentation and Depth Upsampling. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 192-196	3.2	13
34	Exploiting global priors for RGB-D saliency detection 2015 ,		100
33	Integration of Gaussian process and MRF for hyperspectral image classification 2015 ,		4
32	Video Event Recognition by Combining HDP and Gaussian Process 2015 ,		1
31	Hyperspectral image classification using Gaussian process models 2015 ,		2
30	Learning Analysis-by-Synthesis for 6D Pose Estimation in RGB-D Images 2015 ,		85
29	A novel dictionary learning method for remote sensing image classification 2015 ,		1
28	A Global-to-Local Framework for Infrared and Visible Image Sequence Registration 2015 ,		1
27	Pose Estimation of Kinematic Chain Instances via Object Coordinate Regression 2015 ,		12
26	Temporally Object-Based Video Co-segmentation. <i>Lecture Notes in Computer Science</i> , 2015 , 198-209	0.9	
25	Multi-region labeling and segmentation using a graph topology prior and atlas information in brain images. <i>Computerized Medical Imaging and Graphics</i> , 2014 , 38, 725-34	7.6	9
24	Estimating layout of cluttered indoor scenes using trajectory-based priors. <i>Image and Vision Computing</i> , 2014 , 32, 870-883	3.7	1
23	Coupled Dictionary Learning for Automatic Multi-Label Brain Tumor Segmentation in Flair MRI images. <i>Lecture Notes in Computer Science</i> , 2014 , 489-500	0.9	3
22	Feature Regression for Multimodal Image Analysis 2014 ,		1
21	Brain tumor classification using sparse coding and dictionary learning 2014 ,		10

20	Video segmentation with joint object and trajectory labeling 2014 ,		1
19	Simultaneous remote sensing image classification and annotation based on the spatial coherent topic model 2014 ,		1
18	Medical Image Segmentation Using Multi-level Set Partitioning with Topological Graph Prior. <i>Lecture Notes in Computer Science</i> , 2014 , 157-168	0.9	6
17	Slice Sampling Particle Belief Propagation 2013 ,		4
16	Fusion of camera images and laser scans for wide baseline 3D scene alignment in urban environments. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2011 , 66, S52-S61	11.8	18
15	A hierarchical conditional random field model for labeling and classifying images of man-made scenes 2011 ,		28
14	Robust alignment of wide baseline terrestrial laser scans via 3D viewpoint normalization 2011 ,		1
13	Regionwise Classification of Building Facade Images. <i>Lecture Notes in Computer Science</i> , 2011 , 209-220	0.9	13
12	Robust Wide Baseline Scene Alignment Based on 3D Viewpoint Normalization. <i>Lecture Notes in Computer Science</i> , 2010 , 654-665	0.9	3
11	Multiregion level-set segmentation of synthetic aperture radar images 2009 ,		3
10	Integration of conditional random fields and attribute grammars for range data interpretation of man-made objects. <i>Annals of GIS</i> , 2009 , 15, 117-126	4.1	2
9	Embedding artificial intelligence in society: looking beyond the EU AI master plan using the culture cycle. <i>AI and Society</i> ,1	2.1	0
8	FILTERING PHOTOGRAMMETRIC POINT CLOUDS USING STANDARD LIDAR FILTERS TOWARDS DTM GENERATION. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> ,IV-2, 319-326		10
7	INTERACTIVE CADASTRAL BOUNDARY DELINEATION FROM UAV DATA. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> ,IV-2, 81-88		10
6	SLIC SUPERPIXELS FOR OBJECT DELINEATION FROM UAV DATA. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> ,IV-2/W3, 9-16		12
5	WHEAT EAR DETECTION IN PLOTS BY SEGMENTING MOBILE LASER SCANNER DATA. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> ,IV-2/W4, 149-156		4
4	MULTI-TEMPORAL CLASSIFICATION AND CHANGE DETECTION USING UAV IMAGES. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> ,XLII-2, 651-658	2.5	4
3	SEMANTIC SEGMENTATION OF BUILDING IN AIRBORNE IMAGES. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> ,XLII-2/W13, 35-42	2.5	2

2	MULTI-SOURCE MULTI-SCALE HIERARCHICAL CONDITIONAL RANDOM FIELD MODEL FOR REMOTE SENSING IMAGE CLASSIFICATION. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> ,II-3/W4, 293-300	2
1	EFFICIENT SEMANTIC SEGMENTATION OF MAN-MADE SCENES USING FULLY-CONNECTED CONDITIONAL RANDOM FIELD. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> ,XLI-B3, 633-640	2.5 2