

# Michael Ying Yang

## List of Publications by Citations

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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	Uncertainty-Driven 6D Pose Estimation of Objects and Scenes from a Single RGB Image <b>2016</b> ,		205
108	Exploiting global priors for RGB-D saliency detection <b>2015</b> ,		100
107	Learning Analysis-by-Synthesis for 6D Pose Estimation in RGB-D Images <b>2015</b> ,		85
106	Review of Automatic Feature Extraction from High-Resolution Optical Sensor Data for UAV-Based Cadastral Mapping. <i>Remote Sensing</i> , <b>2016</b> , 8, 689	5	83
105	Fusion of multispectral data through illumination-aware deep neural networks for pedestrian detection. <i>Information Fusion</i> , <b>2019</b> , 50, 148-157	16.7	77
104	A deep-learning-based approach for fast and robust steel surface defects classification. <i>Optics and Lasers in Engineering</i> , <b>2019</b> , 121, 397-405	4.6	72
103	UAVid: A semantic segmentation dataset for UAV imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2020</b> , 165, 108-119	11.8	48
102	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> , <b>2016</b> , 26, 2176-2188	6.4	37
101	Single-image-based nonuniformity correction of uncooled long-wave infrared detectors: a deep-learning approach. <i>Applied Optics</i> , <b>2018</b> , 57, D155-D164	1.7	37
100	Object Detection in Aerial Images: A Large-Scale Benchmark and Challenges. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	34
99	Pedestrian detection with unsupervised multispectral feature learning using deep neural networks. <i>Information Fusion</i> , <b>2019</b> , 46, 206-217	16.7	33
98	Contour Detection for UAV-Based Cadastral Mapping. <i>Remote Sensing</i> , <b>2017</b> , 9, 171	5	29
97	Analyzing modular CNN architectures for joint depth prediction and semantic segmentation <b>2017</b> ,		28
96	A hierarchical conditional random field model for labeling and classifying images of man-made scenes <b>2011</b> ,		28
95	Cascaded Deep Networks With Multiple Receptive Fields for Infrared Image Super-Resolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2019</b> , 29, 2310-2322	6.4	25
94	On support relations and semantic scene graphs. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2017</b> , 131, 15-25	11.8	23
93	Box-level segmentation supervised deep neural networks for accurate and real-time multispectral pedestrian detection. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2019</b> , 150, 70-79	11.8	22

92	A Deep Learning-Based Surface Defect Inspection System Using Multiscale and Channel-Compressed Features. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 1-1	5.2	21
91	Vehicle Detection in Aerial Images. <i>Photogrammetric Engineering and Remote Sensing</i> , <b>2019</b> , 85, 297-304	1.6	18
90	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> , <b>2020</b> , 112, 102246	4.1	18
89	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> , <b>2011</b> , 66, S52-S61	11.8	18
88	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> , <b>2018</b> , 138, 57-73	11.8	17
87	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2021</b> , 14, 4205-4230	4.7	17
86	Deep Learning for Vehicle Detection in Aerial Images <b>2018</b> ,		17
85	Detecting Building Changes between Airborne Laser Scanning and Photogrammetric Data. <i>Remote Sensing</i> , <b>2019</b> , 11, 2417	5	16
84	Triplet-Based Deep Similarity Learning for Person Re-Identification <b>2017</b> ,		15
83	Application of Deep Learning for Delineation of Visible Cadastral Boundaries from Remote Sensing Imagery. <i>Remote Sensing</i> , <b>2019</b> , 11, 2505	5	15
82	Orientation-Aware Deep Neural Network for Real Image Super-Resolution <b>2019</b> ,		14
81	Joint Object Segmentation and Depth Upsampling. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 192-196	3.2	13
80	Regionwise Classification of Building Facade Images. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 209-220	0.9	13
79	Exploiting fusion architectures for multispectral pedestrian detection and segmentation. <i>Applied Optics</i> , <b>2018</b> , 57, D108-D116	1.7	12
78	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
77	Pose Estimation of Kinematic Chain Instances via Object Coordinate Regression <b>2015</b> ,		12
76	Deep Learning for Vanishing Point Detection Using an Inverse Gnomonic Projection. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 17-28	0.9	12
75	Brain tumor classification and segmentation using sparse coding and dictionary learning. <i>Biomedizinische Technik</i> , <b>2016</b> , 61, 413-29	1.3	11

74	Brain tumor classification using sparse coding and dictionary learning <b>2014</b> ,		10
73	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
72	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
71	Active and incremental learning for semantic ALS point cloud segmentation. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2020</b> , 169, 73-92	11.8	10
70	A patch-based method for the evaluation of dense image matching quality. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2018</b> , 70, 25-34	7.3	9
69	Multi-region labeling and segmentation using a graph topology prior and atlas information in brain images. <i>Computerized Medical Imaging and Graphics</i> , <b>2014</b> , 38, 725-34	7.6	9
68	Spatially Adaptive Column Fixed-Pattern Noise Correction in Infrared Imaging System Using 1D Horizontal Differential Statistics. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-13	1.8	9
67	Natural Language Guided Visual Relationship Detection <b>2019</b> ,		9
66	AMENet: Attentive Maps Encoder Network for trajectory prediction. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2021</b> , 172, 253-266	11.8	9
65	Global robust image rotation from combined weighted averaging. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2017</b> , 127, 89-101	11.8	8
64	Unsupervised Deep Domain Adaptation for Pedestrian Detection. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 676-691	0.9	8
63	Learning Convolutional Neural Networks for Object Detection with Very Little Training Data <b>2019</b> , 65-100		8
62	Video Event Recognition and Anomaly Detection by Combining Gaussian Process and Hierarchical Dirichlet Process Models. <i>Photogrammetric Engineering and Remote Sensing</i> , <b>2018</b> , 84, 203-214	1.6	8
61	Local and global encoder network for semantic segmentation of Airborne laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2021</b> , 176, 151-168	11.8	8
60	CONSAC: Robust Multi-Model Fitting by Conditional Sample Consensus <b>2020</b> ,		7
59	Unsupervised Domain Adaptation for Multispectral Pedestrian Detection <b>2019</b> ,		7
58	Real-time Semantic Segmentation with Context Aggregation Network. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2021</b> , 178, 124-134	11.8	7
57	Exploring Dynamic Context for Multi-path Trajectory Prediction <b>2021</b> ,		6

56	Can Ground Truth Label Propagation from Video Help Semantic Segmentation?. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 804-820	0.9	6
55	Medical Image Segmentation Using Multi-level Set Partitioning with Topological Graph Prior. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 157-168	0.9	6
54	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> , <b>2019</b> , 11, 2082	5	5
53	Mapping Auto-context Decision Forests to Deep ConvNets for Semantic Segmentation <b>2016</b> ,		5
52	Self-supervised monocular depth estimation from oblique UAV videos. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2021</b> , 176, 1-14	11.8	5
51	Tea Garden Detection from High-Resolution Imagery Using a Scene-Based Framework. <i>Photogrammetric Engineering and Remote Sensing</i> , <b>2018</b> , 84, 723-731	1.6	5
50	Integration of Gaussian process and MRF for hyperspectral image classification <b>2015</b> ,		4
49	Slice Sampling Particle Belief Propagation <b>2013</b> ,		4
48	FairNN - Conjoint Learning of Fair Representations for Fair Decisions. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 581-595	0.9	4
47	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
46	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
45	CABiNet: Efficient Context Aggregation Network for Low-Latency Semantic Segmentation <b>2021</b> ,		4
44	Video object detection with a convolutional regression tracker. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2021</b> , 176, 139-150	11.8	4
43	3D automatic liver segmentation using feature-constrained Mahalanobis distance in CT images. <i>Biomedizinische Technik</i> , <b>2016</b> , 61, 401-12	1.3	4
42	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> , <b>2016</b> , 137, 329-339	6.9	4
41	Coupled Dictionary Learning for Automatic Multi-Label Brain Tumor Segmentation in Flair MRI images. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 489-500	0.9	3
40	Multiregion level-set segmentation of synthetic aperture radar images <b>2009</b> ,		3
39	Exploiting Attention for Visual Relationship Detection. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 331-344	0.9	3

38	Robust Wide Baseline Scene Alignment Based on 3D Viewpoint Normalization. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 654-665	0.9	3
37	Object Recognition from very few Training Examples for Enhancing Bicycle Maps <b>2018</b> ,		3
36	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> , <b>2021</b> , 1-1	11.9	3
35	Descriptor evaluation and feature regression for multimodal image analysis. <i>Machine Vision and Applications</i> , <b>2015</b> , 26, 975-990	2.8	2
34	Real-time RGB-D based template matching pedestrian detection <b>2016</b> ,		2
33	Accurate salient object detection via dense recurrent connections and residual-based hierarchical feature integration. <i>Signal Processing: Image Communication</i> , <b>2019</b> , 78, 103-112	2.8	2
32	Hyperspectral image classification using Gaussian process models <b>2015</b> ,		2
31	Integration of conditional random fields and attribute grammars for range data interpretation of man-made objects. <i>Annals of GIS</i> , <b>2009</b> , 15, 117-126	4.1	2
30	MCENET: Multi-Context Encoder Network for Homogeneous Agent Trajectory Prediction in Mixed Traffic <b>2020</b> ,		2
29	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
28	Motion Segmentation Using Global and Local Sparse Subspace Optimization. <i>Photogrammetric Engineering and Remote Sensing</i> , <b>2017</b> , 83, 769-778	1.6	2
27	Semantic Façade Segmentation from Airborne Oblique Images. <i>Photogrammetric Engineering and Remote Sensing</i> , <b>2019</b> , 85, 425-433	1.6	2
26	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
25	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
24	Temporally Consistent Horizon Lines <b>2020</b> ,		2
23	Deep Learning for Semantic Segmentation of UAV Videos <b>2019</b> ,		2
22	Image Captioning Through Image Transformer. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 153-169	0.9	2
21	Bi-layer dictionary learning for remote sensing image classification <b>2016</b> ,		1

20	Introduction to Multimodal Scene Understanding <b>2019</b> , 1-7		1
19	Estimating layout of cluttered indoor scenes using trajectory-based priors. <i>Image and Vision Computing</i> , <b>2014</b> , 32, 870-883	3-7	1
18	Video Event Recognition by Combining HDP and Gaussian Process <b>2015</b> ,		1
17	A novel dictionary learning method for remote sensing image classification <b>2015</b> ,		1
16	A Global-to-Local Framework for Infrared and Visible Image Sequence Registration <b>2015</b> ,		1
15	Feature Regression for Multimodal Image Analysis <b>2014</b> ,		1
14	Video segmentation with joint object and trajectory labeling <b>2014</b> ,		1
13	Simultaneous remote sensing image classification and annotation based on the spatial coherent topic model <b>2014</b> ,		1
12	Robust alignment of wide baseline terrestrial laser scans via 3D viewpoint normalization <b>2011</b> ,		1
11	Multi-channel residual network model for accurate estimation of spatially-varying and depth-dependent defocus kernels. <i>Optics Express</i> , <b>2020</b> , 28, 2263-2275	3-3	1
10	Smart Ubiquitous Projection <b>2016</b> ,		1
9	Fusing Airborne Laser Scanning and Rapideye Sensor Parameters for Tropical Forest Biomass Estimation of Nepal <b>2019</b> ,		1
8	LIP: Learning Instance Propagation for Video Object Segmentation <b>2019</b> ,		1
7	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
6	NODIS: Neural Ordinary Differential Scene Understanding. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 636-653	6-53	0
5	Weakly supervised semantic segmentation of airborne laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2022</b> , 187, 79-100	11-8	0
4	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2016</b> , 9, 2840-2843	4-7	
3	Multimodal Fusion Architectures for Pedestrian Detection <b>2019</b> , 101-133		

- 2 Temporally Object-Based Video Co-segmentation. *Lecture Notes in Computer Science*, **2015**, 198-209 0.9
- 1 Special Issue Foreword Remote Sensing of Urban Environment (I). *Photogrammetric Engineering and Remote Sensing*, **2018**, 84, 679-679 1.6