Michael Ying Yang

List of Publications by Year
in descending order

125 papers	3,051 citations	304602 22 h-index	265120 42 g-index
130 all docs	130 docs citations	130 times ranked	2462 citing authors

#	Article	IF	Citations
1	Uncertainty-Driven 6D Pose Estimation of Objects and Scenes from a Single RGB Image. , 2016, , .		319
2	A deep-learning-based approach for fast and robust steel surface defects classification. Optics and Lasers in Engineering, 2019, 121, 397-405.	2.0	165
3	Fusion of multispectral data through illumination-aware deep neural networks for pedestrian detection. Information Fusion, 2019, 50, 148-157.	11.7	160
4	Object Detection in Aerial Images: A Large-Scale Benchmark and Challenges. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7778-7796.	9.7	148
5	UAVid: A semantic segmentation dataset for UAV imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 165, 108-119.	4.9	146
6	Exploiting global priors for RGB-D saliency detection. , 2015, , .		145
7	Learning Analysis-by-Synthesis for 6D Pose Estimation in RGB-D Images. , 2015, , .		120
8	Review of Automatic Feature Extraction from High-Resolution Optical Sensor Data for UAV-Based Cadastral Mapping. Remote Sensing, 2016, 8, 689.	1.8	114
9	A deep learning-based surface defect inspection system using multi-scale and channel-compressed features. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	2.4	89
10	On Creating Benchmark Dataset for Aerial Image Interpretation: Reviews, Guidances, and Million-AID. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4205-4230.	2.3	71
11	Single-image-based nonuniformity correction of uncooled long-wave infrared detectors: a deep-learning approach. Applied Optics, 2018, 57, D155.	0.9	66
12	Pedestrian detection with unsupervised multispectral feature learning using deep neural networks. Information Fusion, 2019, 46, 206-217.	11.7	65
13	Effective Strip Noise Removal for Low-Textured Infrared Images Based on 1-D Guided Filtering. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 2176-2188.	5.6	63
14	Spatial-Temporal Transformer for Dynamic Scene Graph Generation. , 2021, , .		54
15	Cascaded Deep Networks With Multiple Receptive Fields for Infrared Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2310-2322.	5.6	52
16	Real-time Semantic Segmentation with Context Aggregation Network. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 178, 124-134.	4.9	48
17	Contour Detection for UAV-Based Cadastral Mapping. Remote Sensing, 2017, 9, 171.	1.8	45
18	Analyzing modular CNN architectures for joint depth prediction and semantic segmentation. , 2017, , .		41

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19	Detecting Building Changes between Airborne Laser Scanning and Photogrammetric Data. Remote Sensing, 2019, 11, 2417.	1.8	41
20	Two-stream convolutional neural network for non-destructive subsurface defect detection via similarity comparison of lock-in thermography signals. NDT and E International, 2020, 112, 102246.	1.7	40
21	A hierarchical conditional random field model for labeling and classifying images of man-made scenes. , 2011, , .		36
22	Deep Learning for Vehicle Detection in Aerial Images. , 2018, , .		33
23	Box-level segmentation supervised deep neural networks for accurate and real-time multispectral pedestrian detection. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 150, 70-79.	4.9	32
24	Natural Language Guided Visual Relationship Detection. , 2019, , .		32
25	Active and incremental learning for semantic ALS point cloud segmentation. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 169, 73-92.	4.9	32
26	On support relations and semantic scene graphs. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 131, 15-25.	4.9	31
27	Fusion of camera images and laser scans for wide baseline 3D scene alignment in urban environments. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, S52-S61.	4.9	29
28	Application of Deep Learning for Delineation of Visible Cadastral Boundaries from Remote Sensing Imagery. Remote Sensing, 2019, 11, 2505.	1.8	29
29	Local and global encoder network for semantic segmentation of Airborne laser scanning point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 176, 151-168.	4.9	29
30	Vehicle Detection in Aerial Images. Photogrammetric Engineering and Remote Sensing, 2019, 85, 297-304.	0.3	28
31	CONSAC: Robust Multi-Model Fitting by Conditional Sample Consensus. , 2020, , .		28
32	CABiNet: Efficient Context Aggregation Network for Low-Latency Semantic Segmentation. , 2021, , .		28
33	Image Captioning Through Image Transformer. Lecture Notes in Computer Science, 2021, , 153-169.	1.0	22
34	Self-supervised monocular depth estimation from oblique UAV videos. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 176, 1-14.	4.9	22
35	Deep Learning for Vanishing Point Detection Using an Inverse Gnomonic Projection. Lecture Notes in Computer Science, 2017, , 17-28.	1.0	22
36	AMENet: Attentive Maps Encoder Network for trajectory prediction. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 172, 253-266.	4.9	21

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37	Regionwise Classification of Building Facade Images. Lecture Notes in Computer Science, 2011, , 209-220.	1.0	21
38	Pose Estimation of Kinematic Chain Instances via Object Coordinate Regression. , 2015, , .		21
39	Exploiting fusion architectures for multispectral pedestrian detection and segmentation. Applied Optics, 2018, 57, D108.	0.9	20
40	Triplet-Based Deep Similarity Learning for Person Re-Identification. , 2017, , .		19
41	The edge-preservation multi-classifier relearning framework for the classification of high-resolution remotely sensed imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 138, 57-73.	4.9	19
42	Exploring Dynamic Context for Multi-path Trajectory Prediction. , 2021, , .		19
43	Orientation-Aware Deep Neural Network for Real Image Super-Resolution. , 2019, , .		16
44	Can Ground Truth Label Propagation from Video Help Semantic Segmentation?. Lecture Notes in Computer Science, 2016, , 804-820.	1.0	16
45	Learning Convolutional Neural Networks for Object Detection with Very Little Training Data. , 2019, , 65-100.		15
46	INTERACTIVE CADASTRAL BOUNDARY DELINEATION FROM UAV DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2, 81-88.	0.0	15
47	Unsupervised Deep Domain Adaptation for Pedestrian Detection. Lecture Notes in Computer Science, 2016, , 676-691.	1.0	14
48	Spatially Adaptive Column Fixed-Pattern Noise Correction in Infrared Imaging System Using 1D Horizontal Differential Statistics. IEEE Photonics Journal, 2017, 9, 1-13.	1.0	14
49	A patch-based method for the evaluation of dense image matching quality. International Journal of Applied Earth Observation and Geoinformation, 2018, 70, 25-34.	1.4	14
50	Crowd-Driven and Automated Mapping of Field Boundaries in Highly Fragmented Agricultural Landscapes of Ethiopia with Very High Spatial Resolution Imagery. Remote Sensing, 2019, 11, 2082.	1.8	14
51	WHEAT EAR DETECTION IN PLOTS BY SEGMENTING MOBILE LASER SCANNER DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W4, 149-156.	0.0	14
52	Joint Object Segmentation and Depth Upsampling. IEEE Signal Processing Letters, 2015, 22, 192-196.	2.1	13
53	Unsupervised Domain Adaptation for Multispectral Pedestrian Detection. , 2019, , .		13
54	Spatio-Temporal 3-D Residual Networks for Simultaneous Detection and Depth Estimation of CFRP Subsurface Defects in Lock-In Thermography. IEEE Transactions on Industrial Informatics, 2022, 18, 2571-2581.	7.2	13

#	ARTICLE	IF	CITATIONS
55	SLIC SUPERPIXELS FOR OBJECT DELINEATION FROM UAV DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W3, 9-16.	0.0	13
56	Brain tumor classification using sparse coding and dictionary learning. , 2014, , .		12
57	Brain tumor classification and segmentation using sparse coding and dictionary learning. Biomedizinische Technik, 2016, 61, 413-429.	0.9	12
58	Video Event Recognition and Anomaly Detection by Combining Gaussian Process and Hierarchical Dirichlet Process Models. Photogrammetric Engineering and Remote Sensing, 2018, 84, 203-214.	0.3	12
59	FILTERING PHOTOGRAMMETRIC POINT CLOUDS USING STANDARD LIDAR FILTERS TOWARDS DTM GENERATION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2, 319-326.	0.0	12
60	Multi-region labeling and segmentation using a graph topology prior and atlas information in brain images. Computerized Medical Imaging and Graphics, 2014, 38, 725-734.	3.5	11
61	Video object detection with a convolutional regression tracker. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 176, 139-150.	4.9	11
62	Weakly supervised semantic segmentation of airborne laser scanning point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 187, 79-100.	4.9	11
63	Real-time RGB-D based template matching pedestrian detection. , 2016, , .		10
64	Global robust image rotation from combined weighted averaging. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 127, 89-101.	4.9	10
65	Medical Image Segmentation Using Multi-level Set Partitioning with Topological Graph Prior. Lecture Notes in Computer Science, 2014, , 157-168.	1.0	10
66	Accurate salient object detection via dense recurrent connections and residual-based hierarchical feature integration. Signal Processing: Image Communication, 2019, 78, 103-112.	1.8	8
67	CHANGE DETECTION BETWEEN DIGITAL SURFACE MODELS FROM AIRBORNE LASER SCANNING AND DENSE IMAGE MATCHING USING CONVOLUTIONAL NEURAL NETWORKS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W5, 453-460.	0.0	8
68	Cuboids Revisited: Learning Robust 3D Shape Fitting to Single RGB Images. , 2021, , .		8
69	Tea Garden Detection from High-Resolution Imagery Using a Scene-Based Framework. Photogrammetric Engineering and Remote Sensing, 2018, 84, 723-731.	0.3	7
70	Robust Wide Baseline Scene Alignment Based on 3D Viewpoint Normalization. Lecture Notes in Computer Science, 2010, , 654-665.	1.0	7
71	MCENET: Multi-Context Encoder Network for Homogeneous Agent Trajectory Prediction in Mixed Traffic. , 2020, , .		7
72	FairNNÂ- Conjoint Learning of Fair Representations for Fair Decisions. Lecture Notes in Computer Science, 2020, , 581-595.	1.0	7

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73	Slice Sampling Particle Belief Propagation. , 2013, , .		6
74	3D automatic liver segmentation using feature-constrained Mahalanobis distance in CT images. Biomedizinische Technik, 2016, 61, 401-412.	0.9	6
75	Alzheimer's disease detection via automatic 3D caudate nucleus segmentation using coupled dictionary learning with level set formulation. Computer Methods and Programs in Biomedicine, 2016, 137, 329-339.	2.6	6
76	Object Recognition from very few Training Examples for Enhancing Bicycle Maps. , 2018, , .		6
77	Mapping Auto-context Decision Forests to Deep ConvNets for Semantic Segmentation. , 2016, , .		6
78	NODIS: Neural Ordinary Differential Scene Understanding. Lecture Notes in Computer Science, 2020, , 636-653.	1.0	6
79	Robust alignment of wide baseline terrestrial laser scans via 3D viewpoint normalization. , 2011, , .		5
80	Smart Ubiquitous Projection. , 2016, , .		5
81	Introduction to Multimodal Scene Understanding. , 2019, , 1-7.		5
82	Embedding artificial intelligence in society: looking beyond the EU AI master plan using the culture cycle. AI and Society, 2023, 38, 1465-1484.	3.1	5
83	Improved trihedral corner reflector for high-precision SAR calibration and validation. , 2014, , .		4
84	Integration of Gaussian process and MRF for hyperspectral image classification. , 2015, , .		4
85	Temporally Consistent Horizon Lines. , 2020, , .		4
86	MULTI-TEMPORAL CLASSIFICATION AND CHANGE DETECTION USING UAV IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2, 651-658.	0.2	4
87	Multiregion level-set segmentation of synthetic aperture radar images. , 2009, , .		3
88	Integration of conditional random fields and attribute grammars for range data interpretation of man-made objects. Annals of GIS, 2009, 15, 117-126.	1.4	3
89	Simultaneous remote sensing image classification and annotation based on the spatial coherent topic model. , 2014, , .		3
90	Video Event Recognition by Combining HDP and Gaussian Process. , 2015, , .		3

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91	Hyperspectral image classification using Gaussian process models. , 2015, , .		3
92	Descriptor evaluation and feature regression for multimodal image analysis. Machine Vision and Applications, 2015, 26, 975-990.	1.7	3
93	FULLY CONVOLUTIONAL NETWORKS FOR STREET FURNITURE IDENTIFICATION IN PANORAMA IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 13-20.	0.2	3
94	SEMANTIC SEGMENTATION OF BUILDING IN AIRBORNE IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 35-42.	0.2	3
95	Exploiting Attention for Visual Relationship Detection. Lecture Notes in Computer Science, 2019, , 331-344.	1.0	3
96	Semantic Façade Segmentation from Airborne Oblique Images. Photogrammetric Engineering and Remote Sensing, 2019, 85, 425-433.	0.3	3
97	Multi-channel residual network model for accurate estimation of spatially-varying and depth-dependent defocus kernels. Optics Express, 2020, 28, 2263.	1.7	3
98	Feature Regression for Multimodal Image Analysis. , 2014, , .		2
99	Video segmentation with joint object and trajectory labeling. , 2014, , .		2
100	A novel dictionary learning method for remote sensing image classification. , 2015, , .		2
101	A Global-to-Local Framework for Infrared and Visible Image Sequence Registration. , 2015, , .		2
102	Bi-layer dictionary learning for remote sensing image classification. , 2016, , .		2
103	Dense matching quality evaluation - an empirical study. , 2017, , .		2
104	Fusing Airborne Laser Scanning and Rapideye Sensor Parameters for Tropical Forest Biomass Estimation of Nepal. , 2019, , .		2
105	Deep Learning for Semantic Segmentation of UAV Videos. , 2019, , .		2
106	SEMANTIC BUILDING FAÇADE SEGMENTATION FROM AIRBORNE OBLIQUE IMAGES. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2, 209-216.	0.0	2
107	MULTI-SOURCE MULTI-SCALE HIERARCHICAL CONDITIONAL RANDOM FIELD MODEL FOR REMOTE SENSING IMAGE CLASSIFICATION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-3/W4, 293-300.	0.0	2
108	EFFICIENT SEMANTIC SEGMENTATION OF MAN-MADE SCENES USING FULLY-CONNECTED CONDITIONAL RANDOM FIELD. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 633-640.	0.2	2

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109	Motion Segmentation Using Global and Local Sparse Subspace Optimization. Photogrammetric Engineering and Remote Sensing, 2017, 83, 769-778.	0.3	2
110	Estimating layout of cluttered indoor scenes using trajectory-based priors. Image and Vision Computing, 2014, 32, 870-883.	2.7	1
111	LIP: Learning Instance Propagation for Video Object Segmentation. , 2019, , .		1
112	Image Segmentation by Bilayer Superpixel Grouping. , 2013, , .		0
113	A representative-based framework for parsing and summarizing events in surveillance videos. , 2016, , .		0
114	Foreword to the Special Issue on â€œGeoVision: Computer Vision for Geospatial Applicationsâ€. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2840-2843.	2.3	0
115	Unbiased Sparse Subspace Clustering by Selective Pursuit. , 2017, , .		0
116	Special Issue Foreword Remote Sensing of Urban Environment (I). Photogrammetric Engineering and Remote Sensing, 2018, 84, 679-679.	0.3	0
117	Multimodal Fusion Architectures for Pedestrian Detection. , 2019, , 101-133.		0
118	Interactive multi-object tracking for virtual object manipulation. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-3/W2, 19-24.	0.0	0
119	Temporally Object-Based Video Co-segmentation. Lecture Notes in Computer Science, 2015, , 198-209.	1.0	0
120	A Generic Probabilistic Graphical Model for Region-based Scene Interpretation. , 2015, , .		0
121	SUPERPIXEL CUT FOR FIGURE-GROUND IMAGE SEGMENTATION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-3, 387-394.	0.0	0
122	SUPERPIXEL CUT FOR FIGURE-GROUND IMAGE SEGMENTATION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-3, 387-394.	0.0	0
123	Editorialâ€”Best of "ISPRS Hannover Workshop 2017". Photogrammetric Engineering and Remote Sensing, 2018, 84, 247-248.	0.3	0
124	PREFACE â€“ ISPRS Geospatial Week 2019. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W5, 1-1.	0.0	0
125	PREFACE â€“ ISPRS GEOSPATIAL WEEK 2019. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 1-1.	0.2	0