

Zhiguo Cao

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.

140 papers	2,572 citations	28 h-index	46 g-index
171 ext. papers	3,553 ext. citations	5.4 avg, IF	5.61 L-index

#	Paper	IF	Citations
140	Person Re-Identification With Hierarchical Discriminative Spatial Aggregation. <i>IEEE Transactions on Information Forensics and Security</i> , 2022 , 17, 516-530	8	1
139	Phenotyping multiple maize ear traits from a single image: Kernels per ear, rows per ear, and kernels per row. <i>Computers and Electronics in Agriculture</i> , 2022 , 193, 106681	6.5	0
138	Dynamic Color Transform Networks for Wheat Head Detection.. <i>Plant Phenomics</i> , 2022 , 2022, 9818452	7	1
137	Class-Attribute Inconsistency Learning for Novelty Detection. <i>Pattern Recognition</i> , 2022 , 126, 108582	7.7	1
136	RANSACs for 3D Rigid Registration: A Comparative Evaluation. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022 , 1-18	7	1
135	Interior Attention-Aware Network for Infrared Small Target Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	4
134	VisDrone-CC2021: The Vision Meets Drone Crowd Counting Challenge Results 2021 ,		4
133	Composing Photos Like a Photographer 2021 ,		2
132	3D Correspondence Grouping with Compatibility Features. <i>Lecture Notes in Computer Science</i> , 2021 , 66-78	7.9	
131	Fast and Accurate Single-Image Depth Estimation on Mobile Devices, Mobile AI 2021 Challenge: Report 2021 ,		10
130	Knowledge Distillation for Fast and Accurate Monocular Depth Estimation on Mobile Devices 2021 ,		6
129	Survey on depth and RGB image-based 3D hand shape and pose estimation. <i>Virtual Reality & Intelligent Hardware</i> , 2021 , 3, 207-234	2.8	5
128	Abrupt-motion-aware lightweight visual tracking for unmanned aerial vehicles. <i>Visual Computer</i> , 2021 , 37, 371-383	2.3	2
127	Li Yan et al. reply. <i>Nature Machine Intelligence</i> , 2021 , 3, 28-32	22.5	1
126	LPQ++: A discriminative blur-insensitive textural descriptor with spatial-channel interaction. <i>Information Sciences</i> , 2021 , 548, 191-211	7.7	1
125	Reply to: Clinical interpretation of an interpretable prognostic model for patients with COVID-19. <i>Nature Machine Intelligence</i> , 2021 , 3, 17-17	22.5	1
124	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 1-1	6.4	3

123	Decoupled Two-Stage Crowd Counting and Beyond. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 2862-2875	8.7	11
122	Machine learning discovery of distinguishing laboratory features for severity classification of COVID-19 patients. <i>IET Cyber-Systems and Robotics</i> , 2021 , 3, 31-43	1.6	
121	Ranking-Based Salient Object Detection and Depth Prediction for Shallow Depth-of-Field. <i>Sensors</i> , 2021 , 21,	3.8	2
120	MAT: Multianchor Visual Tracking With Selective Search Region. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	2
119	TransView: Inside, Outside, and Across the Cropping View Boundaries 2021 ,		1
118	RoSeq: Robust Sequence Labeling. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 2304-2314	10.3	13
117	NSSNet: Scale-Aware Object Counting With Non-Scale Suppression. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-12	6.1	0
116	Towards Real-Time Eyeblick Detection in the Wild: Dataset, Theory and Practices. <i>IEEE Transactions on Information Forensics and Security</i> , 2020 , 15, 2194-2208	8	5
115	An interpretable mortality prediction model for COVID-19 patients. <i>Nature Machine Intelligence</i> , 2020 , 2, 283-288	22.5	398
114	ECML: An Ensemble Cascade Metric-Learning Mechanism Toward Face Verification. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	3
113	Performance Evaluation of Crop Segmentation Algorithms. <i>IEEE Access</i> , 2020 , 8, 36210-36225	3.5	7
112	Learning to fuse local geometric features for 3D rigid data matching. <i>Information Fusion</i> , 2020 , 61, 24-35	16.7	4
111	Sparse-to-Dense Depth Completion Revisited: Sampling Strategy and Graph Construction. <i>Lecture Notes in Computer Science</i> , 2020 , 682-699	0.9	7
110	AIM 2020 Challenge on Rendering Realistic Bokeh. <i>Lecture Notes in Computer Science</i> , 2020 , 213-228	0.9	11
109	Bokeh Rendering from Defocus Estimation. <i>Lecture Notes in Computer Science</i> , 2020 , 245-261	0.9	2
108	High-Throughput Rice Density Estimation from Transplantation to Tillering Stages Using Deep Networks. <i>Plant Phenomics</i> , 2020 , 2020, 1375957	7	5
107	Multispectral Semantic Land Cover Segmentation From Aerial Imagery With Deep Encoder-Decoder Network. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 1-5	4.1	1
106	Measuring Generalisation to Unseen Viewpoints, Articulations, Shapes and Objects for 3D Hand Pose Estimation Under Hand-Object Interaction. <i>Lecture Notes in Computer Science</i> , 2020 , 85-101	0.9	11

105	Weighing Counts: Sequential Crowd Counting by Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 164-181	0.9	16
104	Image Feature Correspondence Selection: a Comparative Study and a New Contribution. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	6
103	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 3513-3527	6.4	15
102	Unsupervised domain adaptation for in-field cotton boll status identification. <i>Computers and Electronics in Agriculture</i> , 2020 , 178, 105745	6.5	6
101	Development and Validation of a Prognostic Risk Score System for COVID-19 Inpatients: A Multi-Center Retrospective Study in China. <i>Engineering</i> , 2020 ,	9.7	10
100	3DV: 3D Dynamic Voxel for Action Recognition in Depth Video 2020 ,		19
99	Structure-Guided Ranking Loss for Single Image Depth Prediction 2020 ,		33
98	Maize tassels detection: a benchmark of the state of the art. <i>Plant Methods</i> , 2020 , 16, 108	5.8	7
97	LRF-Net: Learning Local Reference Frames for 3D Local Shape Description and Matching. <i>Sensors</i> , 2020 , 20,	3.8	6
96	P2B: Point-to-Box Network for 3D Object Tracking in Point Clouds 2020 ,		23
95	TasselNetV2+: A Fast Implementation for High-Throughput Plant Counting From High-Resolution RGB Imagery. <i>Frontiers in Plant Science</i> , 2020 , 11, 541960	6.2	12
94	Monocular Depth Estimation With Augmented Ordinal Depth Relationships. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 2674-2682	6.4	10
93	Binoboost: Boosting Self-Supervised Monocular Depth Prediction with Binocular Guidance 2019 ,		1
92	Mean-Variance Loss for Monocular Depth Estimation 2019 ,		2
91	Action recognition for depth video using multi-view dynamic images. <i>Information Sciences</i> , 2019 , 480, 287-304	7.7	44
90	Learning With Annotation of Various Degrees. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 2794-2804	10.3	12
89	Supervised Fine-Grained Cloud Detection and Recognition in Whole-Sky Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 7972-7985	8.1	16
88	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 714-729	6.4	16

87	Real-Time Detection of Fall From Bed Using a Single Depth Camera. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 1018-1032	4.9	16
86	Limited Receptive Field Network for Real-Time Driving Scene Semantic Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 350-362	0.9	0
85	Deep Attention-Based Classification Network for Robust Depth Prediction. <i>Lecture Notes in Computer Science</i> , 2019 , 663-678	0.9	9
84	NTIRE 2019 Challenge on Real Image Denoising: Methods and Results 2019 ,		24
83	From Open Set to Closed Set: Counting Objects by Spatial Divide-and-Conquer 2019 ,		48
82	A2J: Anchor-to-Joint Regression Network for 3D Articulated Pose Estimation From a Single Depth Image 2019 ,		34
81	NM-Net: Mining Reliable Neighbors for Robust Feature Correspondences 2019 ,		32
80	TasselNetv2: in-field counting of wheat spikes with context-augmented local regression networks. <i>Plant Methods</i> , 2019 , 15, 150	5.8	36
79	Ranking 3D feature correspondences via consistency voting. <i>Pattern Recognition Letters</i> , 2019 , 117, 1-8	4.7	13
78	Toward the Repeatability and Robustness of the Local Reference Frame for 3D Shape Matching: An Evaluation. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 3766-3781	8.7	31
77	An Embarrassingly Simple Approach to Visual Domain Adaptation. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 3403-3417	8.7	57
76	Toward Good Practices for Fine-Grained Maize Cultivar Identification With Filter-Specific Convolutional Activations. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018 , 15, 430-442	4.9	15
75	Rice heading stage automatic observation by multi-classifier cascade based rice spike detection method. <i>Agricultural and Forest Meteorology</i> , 2018 , 259, 260-270	5.8	30
74	Action recognition in depth video from RGB perspective: A knowledge transfer manner 2018 ,		1
73	Real-Time Stereo Matching System. <i>Lecture Notes in Computer Science</i> , 2018 , 377-386	0.9	1
72	Online Update Siamese Network for Unmanned Surface Vehicle Tracking. <i>Lecture Notes in Computer Science</i> , 2018 , 159-169	0.9	
71	Hand pose estimation in depth image using CNN and random forest 2018 ,		2
70	Monocular Relative Depth Perception with Web Stereo Data Supervision 2018 ,		63

69	Scalable Multi-Consistency Feature Matching with Non-Cooperative Games 2018 ,		2
68	Counting Fish in Sonar Images 2018 ,		6
67	The effect of spatial information characterization on 3D local feature descriptors: A quantitative evaluation. <i>Pattern Recognition</i> , 2017 , 66, 375-391	7.7	22
66	Rotational contour signatures for both real-valued and binary feature representations of 3D local shape. <i>Computer Vision and Image Understanding</i> , 2017 , 160, 133-147	4.3	23
65	Towards fine-grained maize tassel flowering status recognition: Dataset, theory and practice. <i>Applied Soft Computing Journal</i> , 2017 , 56, 34-45	7.5	13
64	Multi-attribute statistics histograms for accurate and robust pairwise registration of range images. <i>Neurocomputing</i> , 2017 , 251, 54-67	5.4	21
63	Two-dimensional subspace alignment for convolutional activations adaptation. <i>Pattern Recognition</i> , 2017 , 71, 320-336	7.7	11
62	Refine BING using effective cascade ranking. <i>Applied Soft Computing Journal</i> , 2017 , 52, 487-500	7.5	1
61	Performance Evaluation of 3D Correspondence Grouping Algorithms 2017 ,		10
60	TasselNet: counting maize tassels in the wild via local counts regression network. <i>Plant Methods</i> , 2017 , 13, 79	5.8	95
59	Local phase quantization plus: A principled method for embedding local phase quantization into Fisher vector for blurred image recognition. <i>Information Sciences</i> , 2017 , 420, 77-95	7.7	10
58	DeepCloud: Ground-Based Cloud Image Categorization Using Deep Convolutional Features. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 5729-5740	8.1	52
57	TOLDI: An effective and robust approach for 3D local shape description. <i>Pattern Recognition</i> , 2017 , 65, 175-187	7.7	64
56	When Unsupervised Domain Adaptation Meets Tensor Representations 2017 ,		39
55	DeepCotton: in-field cotton segmentation using deep fully convolutional network. <i>Journal of Electronic Imaging</i> , 2017 , 26, 1	0.7	13
54	3D reconstruction from non-uniform point clouds via local hierarchical clustering 2017 ,		1
53	Exploiting Attribute Dependency for Attribute Assignment in Crowded Scenes. <i>IEEE Signal Processing Letters</i> , 2016 , 23, 1325-1329	3.2	2
52	In-field cotton detection via region-based semantic image segmentation. <i>Computers and Electronics in Agriculture</i> , 2016 , 127, 475-486	6.5	39

51	Structured output tracking guided by keypoint matching 2016 ,		1
50	mCLOUD: A Multiview Visual Feature Extraction Mechanism for Ground-Based Cloud Image Categorization. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016 , 33, 789-801	2	25
49	A fast and robust local descriptor for 3D point cloud registration. <i>Information Sciences</i> , 2016 , 346-347, 163-179	7.7	100
48	In-field automatic observation of wheat heading stage using computer vision. <i>Biosystems Engineering</i> , 2016 , 143, 28-41	4.8	46
47	Video Object Detection and Segmentation Based on Proposal Boxes. <i>Communications in Computer and Information Science</i> , 2016 , 304-317	0.3	0
46	Adobe Boxes: Locating Object Proposals Using Object Adobes. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 4116-28	8.7	17
45	Rotational contour signatures for robust local surface description 2016 ,		5
44	Region-based colour modelling for joint crop and maize tassel segmentation. <i>Biosystems Engineering</i> , 2016 , 147, 139-150	4.8	33
43	Fine-grained maize tassel trait characterization with multi-view representations. <i>Computers and Electronics in Agriculture</i> , 2015 , 118, 143-158	6.5	33
42	Joint Image Registration and Fusion for Panchromatic and Multispectral Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 467-471	4.1	25
41	Ground-based cloud image categorization using deep convolutional visual features 2015 ,		8
40	Crop feature extraction from images with probabilistic superpixel Markov random field. <i>Computers and Electronics in Agriculture</i> , 2015 , 114, 247-260	6.5	27
39	Selective features for RGB-D saliency 2015 ,		2
38	Joint crop and tassel segmentation in the wild 2015 ,		1
37	Hybrid RGB-D object recognition using Convolutional Neural Network and Fisher Vector 2015 ,		1
36	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015 , 51, 1793-1810	3.7	3
35	Blurred face recognition by fusing blur-invariant texture and structure features 2015 ,		1
34	Object detection based on Multi-viewpoint histogram 2015 ,		1

33	An Embedded System-on-Chip Architecture for Real-time Visual Detection and Matching. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 525-538	6.4	37
32	Integration of the saliency-based seed extraction and random walks for image segmentation. <i>Neurocomputing</i> , 2014 , 129, 378-391	5.4	50
31	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2014 , 50, 1197-1221	3.7	4
30	A variational change detection method for multitemporal SAR images. <i>Remote Sensing Letters</i> , 2014 , 5, 342-351	2.3	3
29	Interactive color image segmentation via iterative evidential labeling. <i>Information Fusion</i> , 2014 , 20, 292-304	3.6	16
28	Entropic image thresholding based on GLGM histogram. <i>Pattern Recognition Letters</i> , 2014 , 40, 47-55	4.7	25
27	Robust key point descriptor for multi-spectral image matching. <i>Journal of Systems Engineering and Electronics</i> , 2014 , 25, 681-687	1.3	5
26	A multisize superpixel approach for salient object detection based on multivariate normal distribution estimation. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 5094-107	8.7	37
25	A New Dew and Frost Detection Sensor Based on Computer Vision. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014 , 31, 2692-2712	2	6
24	Cloud Classification of Ground-Based Images Using TextureStructure Features. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014 , 31, 79-92	2	51
23	Vegetation segmentation robust to illumination variations based on clustering and morphology modelling. <i>Biosystems Engineering</i> , 2014 , 125, 80-97	4.8	42
22	A FPGA-based architecture for real-time image matching 2013 ,		2
21	Change detection of multispectral remote-sensing images using stationary wavelet transforms and integrated active contours. <i>International Journal of Remote Sensing</i> , 2013 , 34, 8817-8837	3.1	14
20	A real-time embedded architecture for SIFT. <i>Journal of Systems Architecture</i> , 2013 , 59, 16-29	5.5	38
19	Multi-scale region-based saliency detection using W2 distance on N-dimensional normal distributions 2013 ,		2
18	Automatic image-based detection technology for two critical growth stages of maize: Emergence and three-leaf stage. <i>Agricultural and Forest Meteorology</i> , 2013 , 174-175, 65-84	5.8	65
17	An improved MRF-based change detection approach for multitemporal remote sensing imagery. <i>Signal Processing</i> , 2013 , 93, 163-175	4.4	23
16	Specularity-invariant crop extraction with probabilistic super-pixel Markov random field 2013 ,		1

15	An automatic detection method to the field wheat based on image processing 2013 ,		2
14	An image-based approach for automatic detecting tasseling stage of maize using spatio-temporal saliency 2013 ,		7
13	Type-2 fuzzy thresholding using GLSC histogram of human visual nonlinearity characteristics. <i>Optics Express</i> , 2011 , 19, 10656-72	3.3	19
12	A method of frost observation based on intensity changing regularity simulation and texture analysis 2011 ,		1
11	3D target tracking in infrared imagery by SIFT-based distance histograms 2011 ,		2
10	Classification method for aerial LiDAR data based on Markov random field. <i>Electronics Letters</i> , 2011 , 47, 934	1.1	1
9	Multi-spectral remote image registration based on SIFT. <i>Electronics Letters</i> , 2008 , 44, 107	1.1	132
8	Entropic thresholding based on gray-level spatial correlation histogram 2008 ,		5
7	An Algorithm for Object Function Optimization in Mutual Information-Based Image Registration 2008 ,		1
6	Adaptive Rectification Filter for Detecting Small IR Targets. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2007 , 22, 20-26	2.4	14
5	3-D Reconstruction of Blood Vessels Skeleton Based on Neural Network. <i>Lecture Notes in Computer Science</i> , 2006 , 110-117	0.9	
4	Contrast-modulated Nonlinear Diffusion for X-ray Angiogram Images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 1736-8		2
3	A New Piecewise Approach for Nonuniformity Correction in IRFPA. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2004 , 25, 959-972		3
2	DSA image registration based on multiscale Gabor filters and mutual information		3
1	Development and validation of a prognostic risk score system for COVID-19 inpatients: A multi-center retrospective study in China		3