Ming-Ming Cheng, 程明明

List of Publications by Year
in descending order

151 papers	24,671 citations	34016 52 h-index	37111 96 g-index
153 all docs	153 docs citations	153 times ranked	10027 citing authors

#	Article	IF	Citations
1	MS-TCN++: Multi-Stage Temporal Convolutional Network for Action Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 6647-6658.	9.7	101
2	Vision Permutator: A Permutable MLP-Like Architecture for Visual Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 1328-1334.	9.7	62
3	PoolNet+: Exploring the Potential of Pooling for Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 887-904.	9.7	46
4	Editorial: Human visual saliency and artificial neural attention in deep learning. Neurocomputing, 2022, 491, 489-491.	3.5	0
5	Leveraging Instance-, Image- and Dataset-Level Information for Weakly Supervised Instance Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1415-1428.	9.7	62
6	DNA: Deeply Supervised Nonlinear Aggregation for Salient Object Detection. IEEE Transactions on Cybernetics, 2022, 52, 6131-6142.	6.2	39
7	Online Attention Accumulation for Weakly Supervised Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7062-7077.	9.7	26
8	Concealed Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 6024-6042.	9.7	160
9	A Highly Efficient Model to Study the Semantics of Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 8006-8021.	9.7	36
10	Semantic Edge Detection with Diverse Deep Supervision. International Journal of Computer Vision, 2022, 130, 179-198.	10.9	27
11	MobileSal: Extremely Efficient RGB-D Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 10261-10269.	9.7	48
12	Low-Light Image and Video Enhancement Using Deep Learning: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9396-9416.	9.7	151
13	Efficient 3D Point Cloud Feature Learning for Large-Scale Place Recognition. IEEE Transactions on Image Processing, 2022, 31, 1258-1270.	6.0	26
14	Attention mechanisms in computer vision: A survey. Computational Visual Media, 2022, 8, 331-368.	10.8	647
15	EDN: Salient Object Detection via Extremely-Downsampled Network. IEEE Transactions on Image Processing, 2022, 31, 3125-3136.	6.0	59
16	RF-Next: Efficient Receptive Field Search for Convolutional Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-19.	9.7	8
17	Adaptive Deep Metric Learning for Affective Image Retrieval and Classification. IEEE Transactions on Multimedia, 2021, 23, 1640-1653.	5.2	28
18	Rethinking RGB-D Salient Object Detection: Models, Data Sets, and Large-Scale Benchmarks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2075-2089.	7.2	322

#	ARTICLE	IF	CITATIONS
19	Ordered or Orderless: A Revisit for Video Based Person Re-Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1460-1466.	9.7	26
20	Res2Net: A New Multi-Scale Backbone Architecture. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 652-662.	9.7	1,424
21	Nonlinear Regression via Deep Negative Correlation Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 982-998.	9.7	68
22	Revisiting Video Saliency Prediction in the Deep Learning Era. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 220-237.	9.7	174
23	Re-thinking Co-Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	57
24	Domain Shift Preservation for Zero-Shot Domain Adaptation. IEEE Transactions on Image Processing, 2021, 30, 5505-5517.	6.0	8
25	Deep Hough Transform for Semantic Line Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	60
26	SANet: A Slice-Aware Network for Pulmonary Nodule Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	38
27	Regularized Densely-Connected Pyramid Network for Salient Instance Segmentation. IEEE Transactions on Image Processing, 2021, 30, 3897-3907.	6.0	19
28	Unsupervised Scale-Consistent Depth Learning from Video. International Journal of Computer Vision, 2021, 129, 2548-2564.	10.9	87
29	NTIRE 2021 Depth Guided Image Relighting Challenge. , 2021, , .		10
30	Structure-Measure: A New Way to Evaluate Foreground Maps. International Journal of Computer Vision, 2021, 129, 2622-2638.	10.9	49
31	Lightweight Salient Object Detection via Hierarchical Visual Perception Learning. IEEE Transactions on Cybernetics, 2021, 51, 4439-4449.	6.2	56
32	SAMNet: Stereoscopically Attentive Multi-Scale Network for Lightweight Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 3804-3814.	6.0	115
33	Spatial Information Guided Convolution for Real-Time RGBD Semantic Segmentation. IEEE Transactions on Image Processing, 2021, 30, 2313-2324.	6.0	62
34	CDNet: Complementary Depth Network for RGB-D Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 3376-3390.	6.0	86
35	RGB-D salient object detection: A survey. Computational Visual Media, 2021, 7, 37-69.	10.8	152
36	LayerCAM: Exploring Hierarchical Class Activation Maps for Localization. IEEE Transactions on Image Processing, 2021, 30, 5875-5888.	6.0	227

#	ARTICLE	IF	CITATIONS
37	JCS: An Explainable COVID-19 Diagnosis System by Joint Classification and Segmentation. IEEE Transactions on Image Processing, 2021, 30, 3113-3126.	6.0	296
38	Dense Attention Fluid Network for Salient Object Detection in Optical Remote Sensing Images. IEEE Transactions on Image Processing, 2021, 30, 1305-1317.	6.0	157
39	Delving Deep Into Label Smoothing. IEEE Transactions on Image Processing, 2021, 30, 5984-5996.	6.0	91
40	Low-Rank Constrained Super-Resolution for Mixed-Resolution Multiview Video. IEEE Transactions on Image Processing, 2021, 30, 1072-1085.	6.0	8
41	Pixel-Level Non-local Image Smoothing With Objective Evaluation. IEEE Transactions on Multimedia, 2021, 23, 4065-4078.	5.2	19
42	CoANet: Connectivity Attention Network for Road Extraction From Satellite Imagery. IEEE Transactions on Image Processing, 2021, 30, 8540-8552.	6.0	52
43	Improved Protein Structure Prediction Using a New Multi–Scale Network and Homologous Templates. Advanced Science, 2021, 8, e2102592.	5.6	65
44	Representative Batch Normalization with Feature Calibration. , 2021, , .		25
45	DOTS: Decoupling Operation and Topology in Differentiable Architecture Search. , 2021, , .		14
46	Temporal Modulation Network for Controllable Space-Time Video Super-Resolution. , 2021, , .		43
47	Global2Local: Efficient Structure Search for Video Action Segmentation. , 2021, , .		30
48	Rethinking the U-Shape Structure for Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 9030-9042.	6.0	14
49	Personalized Image Semantic Segmentation. , 2021, , .		2
50	iNAS: Integral NAS for Device-Aware Salient Object Detection. , 2021, , .		4
51	Self-Paced Balance Learning for Clinical Skin Disease Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2832-2846.	7.2	54
52	WSCNet: Weakly Supervised Coupled Networks for Visual Sentiment Classification and Detection. IEEE Transactions on Multimedia, 2020, 22, 1358-1371.	5.2	61
53	Structure-Preserving Neural Style Transfer. IEEE Transactions on Image Processing, 2020, 29, 909-920.	6.0	59
54	GMS: Grid-Based Motion Statistics for Fast, Ultra-robust Feature Correspondence. International Journal of Computer Vision, 2020, 128, 1580-1593.	10.9	83

#	ARTICLE	IF	CITATIONS
55	Noisy-as-Clean: Learning Self-Supervised Denoising From Corrupted Image. IEEE Transactions on Image Processing, 2020, 29, 9316-9329.	6.0	90
56	Dynamic Feature Integration for Simultaneous Detection of Salient Object, Edge, and Skeleton. IEEE Transactions on Image Processing, 2020, 29, 8652-8667.	6.0	95
57	Refinedbox: Refining for fewer and high-quality object proposals. Neurocomputing, 2020, 406, 106-116.	3.5	13
58	Pyramid Constrained Self-Attention Network for Fast Video Salient Object Detection. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 10869-10876.	3.6	78
59	Strip Pooling: Rethinking Spatial Pooling for Scene Parsing. , 2020, , .		328
60	Rethinking Computer-Aided Tuberculosis Diagnosis. , 2020, , .		56
61	Camouflaged Object Detection. , 2020, , .		241
62	Taking a Deeper Look at Co-Salient Object Detection. , 2020, , .		46
63	Interactive Image Segmentation With First Click Attention. , 2020, , .		71
64	VecRoad: Point-Based Iterative Graph Exploration for Road Graphs Extraction. , 2020, , .		52
65	Improving Convolutional Networks With Self-Calibrated Convolutions. , 2020, , .		226
66	S4Net: Single stage salient-instance segmentation. Computational Visual Media, 2020, 6, 191-204.	10.8	17
67	Highly Efficient Salient Object Detection with 100K Parameters. Lecture Notes in Computer Science, 2020, , 702-721.	1.0	91
68	Deep Hough Transform for Semantic Line Detection. Lecture Notes in Computer Science, 2020, , 249-265.	1.0	15
69	Conditional Variational Image Deraining. IEEE Transactions on Image Processing, 2020, 29, 6288-6301.	6.0	55
70	Gradient-Induced Co-Saliency Detection. Lecture Notes in Computer Science, 2020, , 455-472.	1.0	40
71	Joint salient object detection and existence prediction. Frontiers of Computer Science, 2019, 13, 778-788.	1.6	16
72	Salient object detection: A survey. Computational Visual Media, 2019, 5, 117-150.	10.8	376

#	Article	IF	Citations
73	CubemapSLAM: A Piecewise-Pinhole Monocular Fisheye SLAM System. Lecture Notes in Computer Science, 2019, , 34-49.	1.0	6
74	Geometry-Aware ICP for Scene Reconstruction from RGB-D Camera. Journal of Computer Science and Technology, 2019, 34, 581-593.	0.9	5
75	Simultaneous Subspace Clustering and Cluster Number Estimating Based on Triplet Relationship. IEEE Transactions on Image Processing, 2019, 28, 3973-3985.	6.0	17
76	Scoot: A Perceptual Metric for Facial Sketches. , 2019, , .		31
77	Integral Object Mining via Online Attention Accumulation. , 2019, , .		135
78	An Iterative and Cooperative Top-Down and Bottom-Up Inference Network for Salient Object Detection. , 2019, , .		145
79	A Simple Pooling-Based Design for Real-Time Salient Object Detection. , 2019, , .		585
80	IP102: A Large-Scale Benchmark Dataset for Insect Pest Recognition. , 2019, , .		157
81	RegularFace: Deep Face Recognition via Exclusive Regularization. , 2019, , .		77
82	Image Inpainting With Learnable Bidirectional Attention Maps. , 2019, , .		158
83	EGNet: Edge Guidance Network for Salient Object Detection. , 2019, , .		630
84	Zero-Shot Emotion Recognition via Affective Structural Embedding. , 2019, , .		36
85	Optimizing the F-Measure for Threshold-Free Salient Object Detection. , 2019, , .		46
86	Multi-Level Context Ultra-Aggregation for Stereo Matching. , 2019, , .		71
87	Contrast Prior and Fluid Pyramid Integration for RGBD Salient Object Detection. , 2019, , .		261
88	S4Net: Single Stage Salient-Instance Segmentation. , 2019, , .		40
89	Shifting More Attention to Video Salient Object Detection. , 2019, , .		304
90	Joint Acne Image Grading and Counting via Label Distribution Learning. , 2019, , .		34

#	Article	IF	Citations
91	BING: Binarized normed gradients for objectness estimation at 300fps. Computational Visual Media, 2019, 5, 3-20.	10.8	42
92	Richer Convolutional Features for Edge Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1939-1946.	9.7	304
93	Review of Visual Saliency Detection With Comprehensive Information. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2941-2959.	5.6	275
94	Deeply Supervised Salient Object Detection with Short Connections. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 815-828.	9.7	443
95	Visual Sentiment Prediction Based on Automatic Discovery of Affective Regions. IEEE Transactions on Multimedia, 2018, 20, 2513-2525.	5.2	124
96	CODE: Coherence Based Decision Boundaries for Feature Correspondence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 34-47.	9.7	91
97	Sequential Optimization for Efficient High-Quality Object Proposal Generation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1209-1223.	9.7	35
98	Multi-scale Spatiotemporal Information Fusion Network for Video Action Recognition. , 2018, , .		5
99	Crowd Counting with Deep Negative Correlation Learning. , 2018, , .		183
100	Structured Skip List: A Compact Data Structure for 3D Reconstruction. , 2018, , .		1
101	Historical Context-based Style Classification of Painting Images via Label Distribution Learning. , 2018, , .		15
102	Revisiting Video Saliency: A Large-Scale Benchmark and a New Model. , 2018, , .		160
103	FLIC: Fast linear iterative clustering with active search. Computational Visual Media, 2018, 4, 333-348.	10.8	32
104	Direct Line Guidance Odometry. , 2018, , .		20
105	Recognition From Web Data: A Progressive Filtering Approach. IEEE Transactions on Image Processing, 2018, 27, 5303-5315.	6.0	27
106	Associating Inter-image Salient Instances for Weakly Supervised Semantic Segmentation. Lecture Notes in Computer Science, 2018, , 371-388.	1.0	50
107	Salient Objects in Clutter: Bringing Salient Object Detection to the Foreground. Lecture Notes in Computer Science, 2018, , 196-212.	1.0	188
108	Bottom-Up Top-Down Cues forÂWeakly-Supervised Semantic Segmentation. Lecture Notes in Computer Science, 2018, , 263-277.	1.0	10

#	Article	IF	Citations
109	DEL: Deep Embedding Learning for Efficient Image Segmentation. , 2018, , .		32
110	Hi-Fi: Hierarchical Feature Integration for Skeleton Detection. , 2018, , .		35
111	Enhanced-alignment Measure for Binary Foreground Map Evaluation. , 2018, , .		601
112	Pedestrian Detection with a Directly-Cascaded Deconvolution-Convolution Structure. Lecture Notes in Computer Science, 2018, , 370-380.	1.0	0
113	Salient Object Detection: A Discriminative Regional Feature Integration Approach. International Journal of Computer Vision, 2017, 123, 251-268.	10.9	149
114	Intelligent Visual Media Processing: When Graphics Meets Vision. Journal of Computer Science and Technology, 2017, 32, 110-121.	0.9	66
115	STC: A Simple to Complex Framework for Weakly-Supervised Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2314-2320.	9.7	390
116	Depth-aware neural style transfer. , 2017, , .		43
117	Richer Convolutional Features for Edge Detection. , 2017, , .		427
118	GMS: Grid-Based Motion Statistics for Fast, Ultra-Robust Feature Correspondence. , 2017, , .		353
119	Object Region Mining with Adversarial Erasing: A Simple Classification to Semantic Segmentation Approach. , 2017, , .		517
120	Deeply Supervised Salient Object Detection with Short Connections. , 2017, , .		681
121	Structure-Measure: A New Way to Evaluate Foreground Maps. , 2017, , .		827
122	Fusing Image and Segmentation Cues for Skeleton Extraction in the Wild. , 2017, , .		11
123	Video salient object detection via cross-frame cellular automata. , 2017, , .		11
124	HFS: Hierarchical Feature Selection forÂEfficient Image Segmentation. Lecture Notes in Computer Science, 2016, , 867-882.	1.0	36
125	Struck: Structured Output Tracking with Kernels. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2096-2109.	9.7	836
126	SemanticPaint. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
127	DenseCut: Densely Connected CRFs for Realtime GrabCut. Computer Graphics Forum, 2015, 34, 193-201.	1.8	63
128	SaliencyRank: Two-stage manifold ranking for salient object detection. Computational Visual Media, 2015, 1, 309-320.	10.8	41
129	SemanticPaint. ACM Transactions on Graphics, 2015, 34, 1-17.	4.9	74
130	Salient Object Detection: A Benchmark. IEEE Transactions on Image Processing, 2015, 24, 5706-5722.	6.0	1,126
131	SemanticPaint. , 2015, , .		7
132	Global Contrast Based Salient Region Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 569-582.	9.7	2,008
133	The Visual Object Tracking VOT2014 Challenge Results. Lecture Notes in Computer Science, 2015, , 191-217.	1.0	136
134	Object Proposals Estimation in Depth Image Using Compact 3D Shape Manifolds. Lecture Notes in Computer Science, 2015, , 196-208.	1.0	14
135	ImageSpirit. ACM Transactions on Graphics, 2014, 34, 1-11.	4.9	39
136	Dense Semantic Image Segmentation with Objects and Attributes. , 2014, , .		43
137	BING: Binarized Normed Gradients for Objectness Estimation at 300fps. , 2014, , .		599
138	SalientShape: group saliency in image collections. Visual Computer, 2014, 30, 443-453.	2.5	234
139	Bilateral Functions for Global Motion Modeling. Lecture Notes in Computer Science, 2014, , 341-356.	1.0	50
140	Internet visual media processing: a survey with graphics and vision applications. Visual Computer, 2013, 29, 393-405.	2.5	85
141	Robust Non-parametric Data Fitting for Correspondence Modeling. , 2013, , .		11
142	PoseShop: Human Image Database Construction and Personalized Content Synthesis. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 824-837.	2.9	52
143	Efficient Salient Region Detection with Soft Image Abstraction. , 2013, , .		388
144	ImageAdmixture: Putting Together Dissimilar Objects from Groups. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1849-1857.	2.9	11

#	Article	IF	Citations
145	*Interactive images*. ACM Transactions on Graphics, 2012, 31, 1-11.	4.9	79
146	Global contrast based salient region detection. , 2011, , .		1,529
147	Connectedness of Random Walk Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 200-202.	9.7	10
148	RepFinder. ACM Transactions on Graphics, 2010, 29, 1-8.	4.9	123
149	Sketch2Photo. ACM Transactions on Graphics, 2009, 28, 1-10.	4.9	323
150	Sketch2Photo. , 2009, , .		106
151	A Shape–Preserving Approach to Image Resizing. Computer Graphics Forum, 2009, 28, 1897-1906.	1.8	202