

Ming-Ming Cheng, 程鸣鸣

List of Publications by Year in descending order

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151
papers

24,671
citations

34105

52
h-index

37204

96
g-index

153
all docs

153
docs citations

153
times ranked

10027
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Contrast Based Salient Region Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 569-582.	13.9	2,008
2	Global contrast based salient region detection. , 2011, , .		1,529
3	Res2Net: A New Multi-Scale Backbone Architecture. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 652-662.	13.9	1,424
4	Salient Object Detection: A Benchmark. IEEE Transactions on Image Processing, 2015, 24, 5706-5722.	9.8	1,126
5	Struck: Structured Output Tracking with Kernels. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2096-2109.	13.9	836
6	Structure-Measure: A New Way to Evaluate Foreground Maps. , 2017, , .		827
7	Deeply Supervised Salient Object Detection with Short Connections. , 2017, , .		681
8	Attention mechanisms in computer vision: A survey. Computational Visual Media, 2022, 8, 331-368.	17.5	647
9	EGNet: Edge Guidance Network for Salient Object Detection. , 2019, , .		630
10	Enhanced-alignment Measure for Binary Foreground Map Evaluation. , 2018, , .		601
11	BING: Binarized Normed Gradients for Objectness Estimation at 300fps. , 2014, , .		599
12	A Simple Pooling-Based Design for Real-Time Salient Object Detection. , 2019, , .		585
13	Object Region Mining with Adversarial Erasing: A Simple Classification to Semantic Segmentation Approach. , 2017, , .		517
14	Deeply Supervised Salient Object Detection with Short Connections. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 815-828.	13.9	443
15	Richer Convolutional Features for Edge Detection. , 2017, , .		427
16	STC: A Simple to Complex Framework for Weakly-Supervised Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2314-2320.	13.9	390
17	Efficient Salient Region Detection with Soft Image Abstraction. , 2013, , .		388
18	Salient object detection: A survey. Computational Visual Media, 2019, 5, 117-150.	17.5	376

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19	GMS: Grid-Based Motion Statistics for Fast, Ultra-Robust Feature Correspondence. , 2017, , .		353
20	Strip Pooling: Rethinking Spatial Pooling for Scene Parsing. , 2020, , .		328
21	Sketch2Photo. ACM Transactions on Graphics, 2009, 28, 1-10.	7.2	323
22	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.	11.3	322
23	Shifting More Attention to Video Salient Object Detection. , 2019, , .		304
24	Richer Convolutional Features for Edge Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1939-1946.	13.9	304
25	JCS: An Explainable COVID-19 Diagnosis System by Joint Classification and Segmentation. IEEE Transactions on Image Processing, 2021, 30, 3113-3126.	9.8	296
26	Review of Visual Saliency Detection With Comprehensive Information. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2941-2959.	8.3	275
27	Contrast Prior and Fluid Pyramid Integration for RGBD Salient Object Detection. , 2019, , .		261
28	Camouflaged Object Detection. , 2020, , .		241
29	SalientShape: group saliency in image collections. Visual Computer, 2014, 30, 443-453.	3.5	234
30	LayerCAM: Exploring Hierarchical Class Activation Maps for Localization. IEEE Transactions on Image Processing, 2021, 30, 5875-5888.	9.8	227
31	Improving Convolutional Networks With Self-Calibrated Convolutions. , 2020, , .		226
32	A Shape-Preserving Approach to Image Resizing. Computer Graphics Forum, 2009, 28, 1897-1906.	3.0	202
33	Salient Objects in Clutter: Bringing Salient Object Detection to the Foreground. Lecture Notes in Computer Science, 2018, , 196-212.	1.3	188
34	Crowd Counting with Deep Negative Correlation Learning. , 2018, , .		183
35	Revisiting Video Saliency Prediction in the Deep Learning Era. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 220-237.	13.9	174
36	Revisiting Video Saliency: A Large-Scale Benchmark and a New Model. , 2018, , .		160

#	ARTICLE	IF	CITATIONS
37	Concealed Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 6024-6042.	13.9	160
38	Image Inpainting With Learnable Bidirectional Attention Maps. , 2019, , .		158
39	IP102: A Large-Scale Benchmark Dataset for Insect Pest Recognition. , 2019, , .		157
40	Dense Attention Fluid Network for Salient Object Detection in Optical Remote Sensing Images. IEEE Transactions on Image Processing, 2021, 30, 1305-1317.	9.8	157
41	RGB-D salient object detection: A survey. Computational Visual Media, 2021, 7, 37-69.	17.5	152
42	Low-Light Image and Video Enhancement Using Deep Learning: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9396-9416.	13.9	151
43	Salient Object Detection: A Discriminative Regional Feature Integration Approach. International Journal of Computer Vision, 2017, 123, 251-268.	15.6	149
44	An Iterative and Cooperative Top-Down and Bottom-Up Inference Network for Salient Object Detection. , 2019, , .		145
45	The Visual Object Tracking VOT2014 Challenge Results. Lecture Notes in Computer Science, 2015, , 191-217.	1.3	136
46	Integral Object Mining via Online Attention Accumulation. , 2019, , .		135
47	Visual Sentiment Prediction Based on Automatic Discovery of Affective Regions. IEEE Transactions on Multimedia, 2018, 20, 2513-2525.	7.2	124
48	RepFinder. ACM Transactions on Graphics, 2010, 29, 1-8.	7.2	123
49	SAMNet: Stereoscopically Attentive Multi-Scale Network for Lightweight Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 3804-3814.	9.8	115
50	Sketch2Photo. , 2009, , .		106
51	MS-TCN++: Multi-Stage Temporal Convolutional Network for Action Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 6647-6658.	13.9	101
52	Dynamic Feature Integration for Simultaneous Detection of Salient Object, Edge, and Skeleton. IEEE Transactions on Image Processing, 2020, 29, 8652-8667.	9.8	95
53	CODE: Coherence Based Decision Boundaries for Feature Correspondence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 34-47.	13.9	91
54	Delving Deep Into Label Smoothing. IEEE Transactions on Image Processing, 2021, 30, 5984-5996.	9.8	91

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55	Highly Efficient Salient Object Detection with 100K Parameters. Lecture Notes in Computer Science, 2020, , 702-721.	1.3	91
56	Noisy-as-Clean: Learning Self-Supervised Denoising From Corrupted Image. IEEE Transactions on Image Processing, 2020, 29, 9316-9329.	9.8	90
57	Unsupervised Scale-Consistent Depth Learning from Video. International Journal of Computer Vision, 2021, 129, 2548-2564.	15.6	87
58	CDNet: Complementary Depth Network for RGB-D Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 3376-3390.	9.8	86
59	Internet visual media processing: a survey with graphics and vision applications. Visual Computer, 2013, 29, 393-405.	3.5	85
60	GMS: Grid-Based Motion Statistics for Fast, Ultra-robust Feature Correspondence. International Journal of Computer Vision, 2020, 128, 1580-1593.	15.6	83
61	Interactive images. ACM Transactions on Graphics, 2012, 31, 1-11.	7.2	79
62	Pyramid Constrained Self-Attention Network for Fast Video Salient Object Detection. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 10869-10876.	4.9	78
63	RegularFace: Deep Face Recognition via Exclusive Regularization. , 2019, , .		77
64	SemanticPaint. ACM Transactions on Graphics, 2015, 34, 1-17.	7.2	74
65	Multi-Level Context Ultra-Aggregation for Stereo Matching. , 2019, , .		71
66	Interactive Image Segmentation With First Click Attention. , 2020, , .		71
67	Nonlinear Regression via Deep Negative Correlation Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 982-998.	13.9	68
68	Intelligent Visual Media Processing: When Graphics Meets Vision. Journal of Computer Science and Technology, 2017, 32, 110-121.	1.5	66
69	Improved Protein Structure Prediction Using a New Multi-Scale Network and Homologous Templates. Advanced Science, 2021, 8, e2102592.	11.2	65
70	DenseCut: Densely Connected CRFs for Realtime GrabCut. Computer Graphics Forum, 2015, 34, 193-201.	3.0	63
71	Leveraging Instance-, Image- and Dataset-Level Information for Weakly Supervised Instance Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1415-1428.	13.9	62
72	Spatial Information Guided Convolution for Real-Time RGBD Semantic Segmentation. IEEE Transactions on Image Processing, 2021, 30, 2313-2324.	9.8	62

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73	Vision Permutator: A Permutable MLP-Like Architecture for Visual Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 1328-1334.	13.9	62
74	WSCNet: Weakly Supervised Coupled Networks for Visual Sentiment Classification and Detection. IEEE Transactions on Multimedia, 2020, 22, 1358-1371.	7.2	61
75	Deep Hough Transform for Semantic Line Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	60
76	Structure-Preserving Neural Style Transfer. IEEE Transactions on Image Processing, 2020, 29, 909-920.	9.8	59
77	EDN: Salient Object Detection via Extremely-Downsampled Network. IEEE Transactions on Image Processing, 2022, 31, 3125-3136.	9.8	59
78	Re-thinking Co-Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	57
79	Rethinking Computer-Aided Tuberculosis Diagnosis. , 2020, , .		56
80	Lightweight Salient Object Detection via Hierarchical Visual Perception Learning. IEEE Transactions on Cybernetics, 2021, 51, 4439-4449.	9.5	56
81	Conditional Variational Image Deraining. IEEE Transactions on Image Processing, 2020, 29, 6288-6301.	9.8	55
82	Self-Paced Balance Learning for Clinical Skin Disease Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2832-2846.	11.3	54
83	PoseShop: Human Image Database Construction and Personalized Content Synthesis. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 824-837.	4.4	52
84	VecRoad: Point-Based Iterative Graph Exploration for Road Graphs Extraction. , 2020, , .		52
85	CoANet: Connectivity Attention Network for Road Extraction From Satellite Imagery. IEEE Transactions on Image Processing, 2021, 30, 8540-8552.	9.8	52
86	Associating Inter-image Salient Instances for Weakly Supervised Semantic Segmentation. Lecture Notes in Computer Science, 2018, , 371-388.	1.3	50
87	Bilateral Functions for Global Motion Modeling. Lecture Notes in Computer Science, 2014, , 341-356.	1.3	50
88	Structure-Measure: A New Way to Evaluate Foreground Maps. International Journal of Computer Vision, 2021, 129, 2622-2638.	15.6	49
89	MobileSal: Extremely Efficient RGB-D Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 10261-10269.	13.9	48
90	Optimizing the F-Measure for Threshold-Free Salient Object Detection. , 2019, , .		46

#	ARTICLE	IF	CITATIONS
91	Taking a Deeper Look at Co-Salient Object Detection. , 2020, , .		46
92	PoolNet+: Exploring the Potential of Pooling for Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 887-904.	13.9	46
93	Dense Semantic Image Segmentation with Objects and Attributes. , 2014, , .		43
94	Depth-aware neural style transfer. , 2017, , .		43
95	Temporal Modulation Network for Controllable Space-Time Video Super-Resolution. , 2021, , .		43
96	BING: Binarized normed gradients for objectness estimation at 300fps. Computational Visual Media, 2019, 5, 3-20.	17.5	42
97	SaliencyRank: Two-stage manifold ranking for salient object detection. Computational Visual Media, 2015, 1, 309-320.	17.5	41
98	S4Net: Single Stage Salient-Instance Segmentation. , 2019, , .		40
99	Gradient-Induced Co-Saliency Detection. Lecture Notes in Computer Science, 2020, , 455-472.	1.3	40
100	ImageSpirit. ACM Transactions on Graphics, 2014, 34, 1-11.	7.2	39
101	DNA: Deeply Supervised Nonlinear Aggregation for Salient Object Detection. IEEE Transactions on Cybernetics, 2022, 52, 6131-6142.	9.5	39
102	SANet: A Slice-Aware Network for Pulmonary Nodule Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	38
103	HFS: Hierarchical Feature Selection for Efficient Image Segmentation. Lecture Notes in Computer Science, 2016, , 867-882.	1.3	36
104	Zero-Shot Emotion Recognition via Affective Structural Embedding. , 2019, , .		36
105	A Highly Efficient Model to Study the Semantics of Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 8006-8021.	13.9	36
106	Sequential Optimization for Efficient High-Quality Object Proposal Generation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1209-1223.	13.9	35
107	Hi-Fi: Hierarchical Feature Integration for Skeleton Detection. , 2018, , .		35
108	Joint Acne Image Grading and Counting via Label Distribution Learning. , 2019, , .		34

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109	FLIC: Fast linear iterative clustering with active search. Computational Visual Media, 2018, 4, 333-348.	17.5	32
110	DEL: Deep Embedding Learning for Efficient Image Segmentation. , 2018, , .		32
111	Scoot: A Perceptual Metric for Facial Sketches. , 2019, , .		31
112	Global2Local: Efficient Structure Search for Video Action Segmentation. , 2021, , .		30
113	Adaptive Deep Metric Learning for Affective Image Retrieval and Classification. IEEE Transactions on Multimedia, 2021, 23, 1640-1653.	7.2	28
114	Recognition From Web Data: A Progressive Filtering Approach. IEEE Transactions on Image Processing, 2018, 27, 5303-5315.	9.8	27
115	Semantic Edge Detection with Diverse Deep Supervision. International Journal of Computer Vision, 2022, 130, 179-198.	15.6	27
116	Ordered or Orderless: A Revisit for Video Based Person Re-Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1460-1466.	13.9	26
117	Online Attention Accumulation for Weakly Supervised Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7062-7077.	13.9	26
118	Efficient 3D Point Cloud Feature Learning for Large-Scale Place Recognition. IEEE Transactions on Image Processing, 2022, 31, 1258-1270.	9.8	26
119	Representative Batch Normalization with Feature Calibration. , 2021, , .		25
120	Direct Line Guidance Odometry. , 2018, , .		20
121	Regularized Densely-Connected Pyramid Network for Salient Instance Segmentation. IEEE Transactions on Image Processing, 2021, 30, 3897-3907.	9.8	19
122	Pixel-Level Non-local Image Smoothing With Objective Evaluation. IEEE Transactions on Multimedia, 2021, 23, 4065-4078.	7.2	19
123	Simultaneous Subspace Clustering and Cluster Number Estimating Based on Triplet Relationship. IEEE Transactions on Image Processing, 2019, 28, 3973-3985.	9.8	17
124	S4Net: Single stage salient-instance segmentation. Computational Visual Media, 2020, 6, 191-204.	17.5	17
125	Joint salient object detection and existence prediction. Frontiers of Computer Science, 2019, 13, 778-788.	2.4	16
126	Historical Context-based Style Classification of Painting Images via Label Distribution Learning. , 2018, , .		15

#	ARTICLE	IF	CITATIONS
127	Deep Hough Transform for Semantic Line Detection. Lecture Notes in Computer Science, 2020, , 249-265.	1.3	15
128	Object Proposals Estimation in Depth Image Using Compact 3D Shape Manifolds. Lecture Notes in Computer Science, 2015, , 196-208.	1.3	14
129	DOTS: Decoupling Operation and Topology in Differentiable Architecture Search. , 2021, , .		14
130	Rethinking the U-Shape Structure for Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 9030-9042.	9.8	14
131	Refinedbox: Refining for fewer and high-quality object proposals. Neurocomputing, 2020, 406, 106-116.	5.9	13
132	ImageAdmixture: Putting Together Dissimilar Objects from Groups. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1849-1857.	4.4	11
133	Robust Non-parametric Data Fitting for Correspondence Modeling. , 2013, , .		11
134	Fusing Image and Segmentation Cues for Skeleton Extraction in the Wild. , 2017, , .		11
135	Video salient object detection via cross-frame cellular automata. , 2017, , .		11
136	Connectedness of Random Walk Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 200-202.	13.9	10
137	NTIRE 2021 Depth Guided Image Relighting Challenge. , 2021, , .		10
138	Bottom-Up Top-Down Cues for Weakly-Supervised Semantic Segmentation. Lecture Notes in Computer Science, 2018, , 263-277.	1.3	10
139	SemanticPaint. , 2015, , .		9
140	Domain Shift Preservation for Zero-Shot Domain Adaptation. IEEE Transactions on Image Processing, 2021, 30, 5505-5517.	9.8	8
141	Low-Rank Constrained Super-Resolution for Mixed-Resolution Multiview Video. IEEE Transactions on Image Processing, 2021, 30, 1072-1085.	9.8	8
142	RF-Next: Efficient Receptive Field Search for Convolutional Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-19.	13.9	8
143	SemanticPaint. , 2015, , .		7
144	CubemapSLAM: A Piecewise-Pinhole Monocular Fisheye SLAM System. Lecture Notes in Computer Science, 2019, , 34-49.	1.3	6

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145	Multi-scale Spatiotemporal Information Fusion Network for Video Action Recognition. , 2018, , .		5
146	Geometry-Aware ICP for Scene Reconstruction from RGB-D Camera. Journal of Computer Science and Technology, 2019, 34, 581-593.	1.5	5
147	iNAS: Integral NAS for Device-Aware Salient Object Detection. , 2021, , .		4
148	Personalized Image Semantic Segmentation. , 2021, , .		2
149	Structured Skip List: A Compact Data Structure for 3D Reconstruction. , 2018, , .		1
150	Editorial: Human visual saliency and artificial neural attention in deep learning. Neurocomputing, 2022, 491, 489-491.	5.9	0
151	Pedestrian Detection with a Directly-Cascaded Deconvolution-Convolution Structure. Lecture Notes in Computer Science, 2018, , 370-380.	1.3	0