Wenguan Wang

List of Publications by Year
in descending order

72 papers	8,975 citations	159525 30 h-index	289141 40 g-index
72 all docs	72 docs citations	72 times ranked	4528 citing authors

#	Article	IF	Citations
1	Video Salient Object Detection via Fully Convolutional Networks. IEEE Transactions on Image Processing, 2018, 27, 38-49.	6.0	520
2	Deep Visual Attention Prediction. IEEE Transactions on Image Processing, 2018, 27, 2368-2378.	6.0	489
3	Saliency-Aware Video Object Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 20-33.	9.7	376
4	Consistent Video Saliency Using Local Gradient Flow Optimization and Global Refinement. IEEE Transactions on Image Processing, 2015, 24, 4185-4196.	6.0	326
5	Salient Object Detection With Pyramid Attention and Salient Edges. , 2019, , .		320
6	See More, Know More: Unsupervised Video Object Segmentation With Co-Attention Siamese Networks. , 2019, , .		317
7	Saliency-aware geodesic video object segmentation. , 2015, , .		312
8	Shifting More Attention to Video Salient Object Detection. , 2019, , .		304
9	Lazy Random Walks for Superpixel Segmentation. IEEE Transactions on Image Processing, 2014, 23, 1451-1462.	6.0	292
10	Real-Time Superpixel Segmentation by DBSCAN Clustering Algorithm. IEEE Transactions on Image Processing, 2016, 25, 5933-5942.	6.0	281
11	Salient Object Detection in the Deep Learning Era: An In-Depth Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3239-3259.	9.7	259
12	Pyramid Dilated Deeper ConvLSTM for Video Salient Object Detection. Lecture Notes in Computer Science, 2018, , 744-760.	1.0	257
13	Exploring Cross-Image Pixel Contrast for Semantic Segmentation. , 2021, , .		256
14	A Deep Network Solution for Attention and Aesthetics Aware Photo Cropping. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1531-1544.	9.7	251
15	Learning Human-Object Interactions by Graph Parsing Neural Networks. Lecture Notes in Computer Science, 2018, , 407-423.	1.0	243
16	Occlusion-Aware Real-Time Object Tracking. IEEE Transactions on Multimedia, 2017, 19, 763-771.	5.2	195
17	Zero-Shot Video Object Segmentation via Attentive Graph Neural Networks. , 2019, , .		184
18	Revisiting Video Saliency Prediction in the Deep Learning Era. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 220-237.	9.7	174

#	Article	IF	Citations
19	Attentive Fashion Grammar Network for Fashion Landmark Detection and Clothing Category Classification. , 2018, , .		166
20	Revisiting Video Saliency: A Large-Scale Benchmark and a New Model. , 2018, , .		160
21	Learning Unsupervised Video Object Segmentation Through Visual Attention. , 2019, , .		157
22	An Iterative and Cooperative Top-Down and Bottom-Up Inference Network for Salient Object Detection. , 2019, , .		145
23	Human-Aware Motion Deblurring. , 2019, , .		136
24	Inferring Salient Objects from Human Fixations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1913-1927.	9.7	134
25	Video Object Segmentation with Episodic Graph Memory Networks. Lecture Notes in Computer Science, 2020, , 661-679.	1.0	133
26	Correspondence Driven Saliency Transfer. IEEE Transactions on Image Processing, 2016, 25, 5025-5034.	6.0	126
27	Robust Video Object Cosegmentation. IEEE Transactions on Image Processing, 2015, 24, 3137-3148.	6.0	124
28	Semi-Supervised Video Object Segmentation with Super-Trajectories. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 985-998.	9.7	123
29	Stereoscopic Thumbnail Creation via Efficient Stereo Saliency Detection. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 2014-2027.	2.9	122
30	Salient Object Detection Driven by Fixation Prediction. , 2018, , .		122
31	Dynamical Hyperparameter Optimization via Deep Reinforcement Learning in Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1515-1529.	9.7	122
32	Mining Cross-Image Semantics for Weakly Supervised Semantic Segmentation. Lecture Notes in Computer Science, 2020, , 347-365.	1.0	112
33	Hyperparameter Optimization for Tracking with Continuous Deep Q-Learning. , 2018, , .		98
34	Video Saliency Prediction Using Spatiotemporal Residual Attentive Networks. IEEE Transactions on Image Processing, 2020, 29, 1113-1126.	6.0	96
35	Video Saliency Detection Using Object Proposals. IEEE Transactions on Cybernetics, 2018, 48, 3159-3170.	6.2	81
36	Learning Compositional Neural Information Fusion for Human Parsing. , 2019, , .		80

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37	Reasoning Visual Dialogs With Structural and Partial Observations. , 2019, , .		78
38	A Unified Object Motion and Affinity Model for Online Multi-Object Tracking. , 2020, , .		78
39	Cascaded Human-Object Interaction Recognition. , 2020, , .		77
40	Deep Cropping via Attention Box Prediction and Aesthetics Assessment. , 2017, , .		75
41	Fault Diagnosis of Photovoltaic Panels Using Dynamic Current–Voltage Characteristics. IEEE Transactions on Power Electronics, 2016, 31, 1588-1599.	5.4	74
42	Paying Attention to Video Object Pattern Understanding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2413-2428.	9.7	71
43	Understanding Human Gaze Communication by Spatio-Temporal Graph Reasoning. , 2019, , .		70
44	Higher-Order Image Co-segmentation. IEEE Transactions on Multimedia, 2016, 18, 1011-1021.	5.2	65
45	Hierarchical Human Parsing With Typed Part-Relation Reasoning. , 2020, , .		64
46	Learning Descriptor Networks for 3D Shape Synthesis and Analysis. , 2018, , .		63
47	Video Co-Saliency Guided Co-Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1727-1736.	5.6	61
48	Video Object Segmentation Via Dense Trajectories. IEEE Transactions on Multimedia, 2015, 17, 2225-2234.	5.2	59
49	Cascaded Parsing of Human-Object Interaction Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2827-2840.	9.7	57
50	Optimizing the F-Measure for Threshold-Free Salient Object Detection. , 2019, , .		46
51	Inferring Shared Attention in Social Scene Videos. , 2018, , .		42
52	Differentiable Multi-Granularity Human Representation Learning for Instance-Aware Human Semantic Parsing. , 2021, , .		42
53	Near-Real-Time Parameter Estimation of an Electrical Battery Model With Multiple Time Constants and SOC-Dependent Capacitance. IEEE Transactions on Power Electronics, 2014, 29, 5905-5920.	5.4	41
54	Weakly Supervised 3D Object Detection from Lidar Point Cloud. Lecture Notes in Computer Science, 2020, , 515-531.	1.0	41

#	Article	IF	Citations
55	Super-Trajectory for Video Segmentation. , 2017, , .		30
56	Motion-Aware Rapid Video Saliency Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4887-4898.	5.6	28
57	Active Visual Information Gathering for Vision-Language Navigation. Lecture Notes in Computer Science, 2020, , 307-322.	1.0	27
58	Hierarchical Human Semantic Parsing with Comprehensive Part-Relation Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	26
59	Selective Video Object Cutout. IEEE Transactions on Image Processing, 2017, 26, 5645-5655.	6.0	25
60	A Neural-Network-Based Color Control Method for Multi-Color LED Systems. IEEE Transactions on Power Electronics, 2019, 34, 7900-7913.	5.4	24
61	Collaborative Spatial-Temporal Modeling for Language-Queried Video Actor Segmentation. , 2021, , .		20
62	A Novel Color Control Method for Multicolor LED Systems to Achieve High Color Rendering Indexes. IEEE Transactions on Power Electronics, 2018, 33, 8246-8258.	5.4	18
63	Better Dense Trajectories by Motion in Videos. IEEE Transactions on Cybernetics, 2019, 49, 159-170.	6.2	17
64	Use of Transmitter-Side Electrical Information to Estimate System Parameters of Wireless Inductive Links. IEEE Transactions on Power Electronics, 2017, 32, 7169-7186.	5.4	16
65	Training neural-network-based controller on distributed machine learning platform for power electronics systems. , 2017, , .		13
66	Stereo Video Object Segmentation Using Stereoscopic Foreground Trajectories. IEEE Transactions on Cybernetics, 2019, 49, 3665-3676.	6.2	13
67	Comic-guided speech synthesis. ACM Transactions on Graphics, 2019, 38, 1-14.	4.9	11
68	Diagnostic cell for large-scale battery bank. , 2017, , .		3
69	Application of artificial neural-network to control the light of multi-color LED system. , 2017, , .		3
70	Near-real-time parameter estimation of an electrical battery model with multiple time constants and SOC-dependent capacitance. , 2014, , .		2
71	Fault diagnostic device for photovoltaic panels. , 2015, , .		1
72	A Novel Color Control Method for Multi-Color LED Systems to Achieve High Color Rendering Indexes. , 2018, , .		1