Wenguan Wang

List of Publications by Citations

68 papers	5,443 citations	40 h-index	72 g-index
72 ext. papers	7,005 ext. citations	7.1 avg, IF	6.9 L-index

#	Paper	IF	Citations
68	Video Salient Object Detection via Fully Convolutional Networks. *IEEE Transactions on Image Processing*, **2018**, 27, 38-49	8.7	382
67	Deep Visual Attention Prediction. *IEEE Transactions on Image Processing*, **2018**, 27, 2368-2378	8.7	358
66	Saliency-Aware Video Object Segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2018**, 40, 20-33	13.3	268
65	Consistent Video Saliency Using Local Gradient Flow Optimization and Global Refinement. *IEEE Transactions on Image Processing*, **2015**, 24, 4185-96	8.7	248
64	Lazy random walks for superpixel segmentation. *IEEE Transactions on Image Processing*, **2014**, 23, 1451-62	8.7	246
63	Saliency-aware geodesic video object segmentation **2015**,		240
62	Real-Time Superpixel Segmentation by DBSCAN Clustering Algorithm. *IEEE Transactions on Image Processing*, **2016**, 25, 5933-5942	8.7	196
61	A Deep Network Solution for Attention and Aesthetics Aware Photo Cropping. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 1531-1544	13.3	178
60	Salient Object Detection With Pyramid Attention and Salient Edges **2019**,		174
59	Shifting More Attention to Video Salient Object Detection **2019**,		173
58	**2019**,		161
57	. *IEEE Transactions on Multimedia*, **2017**, 19, 763-771	6.6	146
56	Pyramid Dilated Deeper ConvLSTM for Video Salient Object Detection. *Lecture Notes in Computer Science*, **2018**, 744-760	0.9	132
55	Robust video object cosegmentation. *IEEE Transactions on Image Processing*, **2015**, 24, 3137-48	8.7	120
54	Learning Human-Object Interactions by Graph Parsing Neural Networks. *Lecture Notes in Computer Science*, **2018**, 407-423	0.9	117
53	Correspondence Driven Saliency Transfer. *IEEE Transactions on Image Processing*, **2016**, 25, 5025-5034	8.7	115
52	Revisiting Video Saliency Prediction in the Deep Learning Era. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 220-237	13.3	108

51	Stereoscopic Thumbnail Creation via Efficient Stereo Saliency Detection. *IEEE Transactions on Visualization and Computer Graphics*, **2017**, 23, 2014-2027	4	106
50	Attentive Fashion Grammar Network for Fashion Landmark Detection and Clothing Category Classification **2018**,		101
49	Revisiting Video Saliency: A Large-Scale Benchmark and a New Model **2018**,		98
48	Zero-Shot Video Object Segmentation via Attentive Graph Neural Networks **2019**,		93
47	Salient Object Detection Driven by Fixation Prediction **2018**,		91
46	An Iterative and Cooperative Top-Down and Bottom-Up Inference Network for Salient Object Detection **2019**,		85
45	Semi-Supervised Video Object Segmentation with Super-Trajectories. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2018**,	13.3	82
44	Salient Object Detection in the Deep Learning Era: An In-depth Survey. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	82
43	**2019**,		75
42	Hyperparameter Optimization for Tracking with Continuous Deep Q-Learning **2018**,		75
41	Inferring Salient Objects from Human Fixations. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 1913-1927	13.3	70
40	Video Saliency Detection Using Object Proposals. *IEEE Transactions on Cybernetics*, **2018**, 48, 3159-3170	10.2	60
39	Video Saliency Prediction using Spatiotemporal Residual Attentive Networks. *IEEE Transactions on Image Processing*, **2019**,	8.7	55
38	Dynamical Hyperparameter Optimization via Deep Reinforcement Learning in Tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 1515-1529	13.3	55
37	**2019**,		53
36	Fault Diagnosis of Photovoltaic Panels Using Dynamic Current□Voltage Characteristics. *IEEE Transactions on Power Electronics*, **2016**, 31, 1588-1599	7.2	52
35	. *IEEE Transactions on Multimedia*, **2016**, 18, 1011-1021	6.6	51
34	. *IEEE Transactions on Multimedia*, **2015**, 17, 2225-2234	6.6	50

33	Video Object Segmentation with Episodic Graph Memory Networks. *Lecture Notes in Computer Science*, **2020**, 661-679	0.9	49
32	**2020**,		47
31	Video Co-Saliency Guided Co-Segmentation. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 1727-1736	6.4	46
30	Exploring Cross-Image Pixel Contrast for Semantic Segmentation **2021**,		46
29	Deep Cropping via Attention Box Prediction and Aesthetics Assessment **2017**,		44
28	Mining Cross-Image Semantics for Weakly Supervised Semantic Segmentation. *Lecture Notes in Computer Science*, **2020**, 347-365	0.9	40
27	Learning Compositional Neural Information Fusion for Human Parsing **2019**,		40
26	Learning Descriptor Networks for 3D Shape Synthesis and Analysis **2018**,		35
25	Understanding Human Gaze Communication by Spatio-Temporal Graph Reasoning **2019**,		33
24	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	7.2	32
23	Reasoning Visual Dialogs With Structural and Partial Observations **2019**,		30
22	A Unified Object Motion and Affinity Model for Online Multi-Object Tracking **2020**,		26
21	Paying Attention to Video Object Pattern Understanding. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 2413-2428	13.3	23
20	Super-Trajectory for Video Segmentation **2017**,		22
19	Hierarchical Human Parsing With Typed Part-Relation Reasoning **2020**,		22
18	Cascaded Parsing of Human-Object Interaction Recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	22
17	Inferring Shared Attention in Social Scene Videos **2018**,		22
16	Optimizing the F-Measure for Threshold-Free Salient Object Detection **2019**,		19

15	Selective Video Object Cutout. *IEEE Transactions on Image Processing*, **2017**, 26, 5645-5655	8.7	16
14	Weakly Supervised 3D Object Detection from Lidar Point Cloud. *Lecture Notes in Computer Science*, **2020**, 515-531	0.9	16
13	Motion-Aware Rapid Video Saliency Detection. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 4887-4898	6.4	16
12	A Neural-Network-Based Color Control Method for Multi-Color LED Systems. *IEEE Transactions on Power Electronics*, **2019**, 34, 7900-7913	7.2	15
11	Differentiable Multi-Granularity Human Representation Learning for Instance-Aware Human Semantic Parsing **2021**,		14
10	Better Dense Trajectories by Motion in Videos. *IEEE Transactions on Cybernetics*, **2019**, 49, 159-170	10.2	13
9	Use of Transmitter-Side Electrical Information to Estimate System Parameters of Wireless Inductive Links. *IEEE Transactions on Power Electronics*, **2017**, 32, 7169-7186	7.2	10
8	Hierarchical Human Semantic Parsing with Comprehensive Part-Relation Modeling. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	9
7	A Novel Color Control Method for Multicolor LED Systems to Achieve High Color Rendering Indexes. *IEEE Transactions on Power Electronics*, **2018**, 33, 8246-8258	7.2	8
6	Stereo Video Object Segmentation Using Stereoscopic Foreground Trajectories. *IEEE Transactions on Cybernetics*, **2018**,	10.2	8
5	Training neural-network-based controller on distributed machine learning platform for power electronics systems **2017**,		7
4	Active Visual Information Gathering for Vision-Language Navigation. *Lecture Notes in Computer Science*, **2020**, 307-322	0.9	7
3	Comic-guided speech synthesis. *ACM Transactions on Graphics*, **2019**, 38, 1-14	7.6	3
2	Fault diagnostic device for photovoltaic panels **2015**,		1
1	Near-real-time parameter estimation of an electrical battery model with multiple time constants and SOC-dependent capacitance **2014**,		1