Jianbing Shen

List of Publications by Year
in descending order

159 papers	12,723 citations	31976 53 h-index	37204 96 g-index
161 all docs	161 docs citations	161 times ranked	6006 citing authors

#	Article	IF	Citations
1	Deep Learning for Person Re-Identification: A Survey and Outlook. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2872-2893.	13.9	686
2	Video Salient Object Detection via Fully Convolutional Networks. IEEE Transactions on Image Processing, 2018, 27, 38-49.	9.8	520
3	Deep Visual Attention Prediction. IEEE Transactions on Image Processing, 2018, 27, 2368-2378.	9.8	489
4	Saliency-Aware Video Object Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 20-33.	13.9	376
5	Triplet Loss in Siamese Network for Object Tracking. Lecture Notes in Computer Science, 2018, , 472-488.	1.3	342
6	Consistent Video Saliency Using Local Gradient Flow Optimization and Global Refinement. IEEE Transactions on Image Processing, 2015, 24, 4185-4196.	9.8	326
7	Salient Object Detection With Pyramid Attention and Salient Edges. , 2019, , .		320
8	See More, Know More: Unsupervised Video Object Segmentation With Co-Attention Siamese Networks. , 2019, , .		317
9	Saliency-aware geodesic video object segmentation. , 2015, , .		312
10	Shifting More Attention to Video Salient Object Detection. , 2019, , .		304
11	Lazy Random Walks for Superpixel Segmentation. IEEE Transactions on Image Processing, 2014, 23, 1451-1462.	9.8	292
12	Real-Time Superpixel Segmentation by DBSCAN Clustering Algorithm. IEEE Transactions on Image Processing, 2016, 25, 5933-5942.	9.8	281
13	Salient Object Detection in the Deep Learning Era: An In-Depth Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3239-3259.	13.9	259
14	Pyramid Dilated Deeper ConvLSTM for Video Salient Object Detection. Lecture Notes in Computer Science, 2018, , 744-760.	1.3	257
15	A Deep Network Solution for Attention and Aesthetics Aware Photo Cropping. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1531-1544.	13.9	251
16	Learning Human-Object Interactions by Graph Parsing Neural Networks. Lecture Notes in Computer Science, 2018, , 407-423.	1.3	243
17	Occlusion-Aware Real-Time Object Tracking. IEEE Transactions on Multimedia, 2017, 19, 763-771.	7.2	195
18	Zero-Shot Video Object Segmentation via Attentive Graph Neural Networks. , 2019, , .		184

#	Article	IF	Citations
19	Sub-Markov Random Walk for Image Segmentation. IEEE Transactions on Image Processing, 2016, 25, 516-527.	9.8	183
20	Revisiting Video Saliency Prediction in the Deep Learning Era. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 220-237.	13.9	174
21	Attentive Fashion Grammar Network for Fashion Landmark Detection and Clothing Category Classification. , 2018, , .		166
22	Visible-Infrared Person Re-Identification via Homogeneous Augmented Tri-Modal Learning. IEEE Transactions on Information Forensics and Security, 2021, 16, 728-739.	6.9	162
23	Revisiting Video Saliency: A Large-Scale Benchmark and a New Model. , 2018, , .		160
24	Learning Unsupervised Video Object Segmentation Through Visual Attention. , 2019, , .		157
25	Quadruplet Network With One-Shot Learning for Fast Visual Object Tracking. IEEE Transactions on Image Processing, 2019, 28, 3516-3527.	9.8	155
26	RGB-D salient object detection: A survey. Computational Visual Media, 2021, 7, 37-69.	17.5	152
27	Exposure Fusion Using Boosting Laplacian Pyramid. IEEE Transactions on Cybernetics, 2014, 44, 1579-1590.	9.5	137
28	Human-Aware Motion Deblurring. , 2019, , .		136
29	Inferring Salient Objects from Human Fixations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1913-1927.	13.9	134
30	MATNet: Motion-Attentive Transition Network for Zero-Shot Video Object Segmentation. IEEE Transactions on Image Processing, 2020, 29, 8326-8338.	9.8	133
31	Video Object Segmentation with Episodic Graph Memory Networks. Lecture Notes in Computer Science, 2020, , 661-679.	1.3	133
32	Correspondence Driven Saliency Transfer. IEEE Transactions on Image Processing, 2016, 25, 5025-5034.	9.8	126
33	Robust Video Object Cosegmentation. IEEE Transactions on Image Processing, 2015, 24, 3137-3148.	9.8	124
34	Semi-Supervised Video Object Segmentation with Super-Trajectories. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 985-998.	13.9	123
35	Stereoscopic Thumbnail Creation via Efficient Stereo Saliency Detection. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 2014-2027.	4.4	122
36	Salient Object Detection Driven by Fixation Prediction. , 2018, , .		122

#	ARTICLE	IF	CITATIONS
37	Dynamical Hyperparameter Optimization via Deep Reinforcement Learning in Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1515-1529.	13.9	122
38	ET-Net: A Generic Edge-aTtention Guidance Network for Medical Image Segmentation. Lecture Notes in Computer Science, 2019, , 442-450.	1.3	115
39	Visual Object Tracking by Hierarchical Attention Siamese Network. IEEE Transactions on Cybernetics, 2020, 50, 3068-3080.	9.5	113
40	Local Semantic Siamese Networks for Fast Tracking. IEEE Transactions on Image Processing, 2020, 29, 3351-3364.	9.8	108
41	Visual Tracking Using Strong Classifier and Structural Local Sparse Descriptors. IEEE Transactions on Multimedia, 2015, 17, 1818-1828.	7.2	106
42	Learning Video Object Segmentation From Unlabeled Videos. , 2020, , .		102
43	Hyperparameter Optimization for Tracking with Continuous Deep Q-Learning. , 2018, , .		98
44	Intrinsic images using optimization. , 2011, , .		97
45	Video Saliency Prediction Using Spatiotemporal Residual Attentive Networks. IEEE Transactions on Image Processing, 2020, 29, 1113-1126.	9.8	96
46	Submodular Trajectories for Better Motion Segmentation in Videos. IEEE Transactions on Image Processing, 2018, 27, 2688-2700.	9.8	83
47	Video Saliency Detection Using Object Proposals. IEEE Transactions on Cybernetics, 2018, 48, 3159-3170.	9.5	81
48	Learning Compositional Neural Information Fusion for Human Parsing. , 2019, , .		80
49	Interactive Segmentation Using Constrained Laplacian Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 1088-1100.	8.3	78
50	Fast Online Tracking With Detection Refinement. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 162-173.	8.0	78
51	Siamese Network for RGB-D Salient Object Detection and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	76
52	Deep Cropping via Attention Box Prediction and Aesthetics Assessment. , 2017, , .		75
53	Towards Bridging Semantic Gap to Improve Semantic Segmentation. , 2019, , .		74
54	Augmentation Invariant and Instance Spreading Feature for Softmax Embedding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 924-939.	13.9	74

#	Article	IF	Citations
55	Higher Order Energies for Image Segmentation. IEEE Transactions on Image Processing, 2017, 26, 4911-4922.	9.8	71
56	Paying Attention to Video Object Pattern Understanding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2413-2428.	13.9	71
57	Interactive Cosegmentation Using Global and Local Energy Optimization. IEEE Transactions on Image Processing, 2015, 24, 3966-3977.	9.8	70
58	Intrinsic Image Decomposition Using Optimization and User Scribbles. IEEE Transactions on Cybernetics, 2013, 43, 425-436.	9.5	69
59	Zero-Shot Video Object Segmentation with Co-Attention Siamese Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	13.9	67
60	Higher-Order Image Co-segmentation. IEEE Transactions on Multimedia, 2016, 18, 1011-1021.	7.2	65
61	Visual Tracking Under Motion Blur. IEEE Transactions on Image Processing, 2016, 25, 5867-5876.	9.8	65
62	A deep Coarse-to-Fine network for head pose estimation from synthetic data. Pattern Recognition, 2019, 94, 196-206.	8.1	65
63	Multiobject Tracking by Submodular Optimization. IEEE Transactions on Cybernetics, 2019, 49, 1990-2001.	9.5	64
64	Video Co-Saliency Guided Co-Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1727-1736.	8.3	61
65	Video Object Segmentation Via Dense Trajectories. IEEE Transactions on Multimedia, 2015, 17, 2225-2234.	7.2	59
66	Full-Duplex Strategy for Video Object Segmentation. , 2021, , .		59
67	Depth-Aware Image Seam Carving. IEEE Transactions on Cybernetics, 2013, 43, 1453-1461.	9.5	58
68	Gradient based image completion by solving the Poisson equation. Computers and Graphics, 2007, 31, 119-126.	2.5	57
69	Re-thinking Co-Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	57
70	Cascaded Parsing of Human-Object Interaction Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2827-2840.	13.9	57
71	Discriminative Tracking Using Tensor Pooling. IEEE Transactions on Cybernetics, 2016, 46, 2411-2422.	9.5	56
72	CLNet: A Compact Latent Network for Fast Adjusting Siamese Trackers. Lecture Notes in Computer Science, 2020, , 378-395.	1.3	56

#	ARTICLE	IF	CITATIONS
73	Generalized Pooling for Robust Object Tracking. IEEE Transactions on Image Processing, 2016, 25, 1-1.	9.8	54
74	Learning to Fuse Asymmetric Feature Maps in Siamese Trackers. , 2021, , .		51
75	Augmented reality based real-time subcutaneous vein imaging system. Biomedical Optics Express, 2016, 7, 2565.	2.9	44
76	High-Order Energies for Stereo Segmentation. IEEE Transactions on Cybernetics, 2016, 46, 1616-1627.	9.5	44
77	Robust Object Tracking Using Manifold Regularized Convolutional Neural Networks. IEEE Transactions on Multimedia, 2019, 21, 510-521.	7.2	42
78	Submodular Function Optimization for Motion Clustering and Image Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2637-2649.	11.3	42
79	Deep Object Tracking with Shrinkage Loss. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	13.9	41
80	Robust Match Fusion Using Optimization. IEEE Transactions on Cybernetics, 2015, 45, 1549-1560.	9.5	38
81	Video Supervoxels Using Partially Absorbing Random Walks. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 928-938.	8.3	37
82	Manifold Regularized Correlation Object Tracking. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1786-1795.	11.3	37
83	Person Re-Identification by Context-Aware Part Attention and Multi-Head Collaborative Learning. IEEE Transactions on Information Forensics and Security, 2022, 17, 115-126.	6.9	36
84	Reducing Estimation Bias via Triplet-Average Deep Deterministic Policy Gradient. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4933-4945.	11.3	34
85	Parallel and efficient approximate nearest patch matching for image editing applications. Neurocomputing, 2018, 305, 39-50.	5.9	33
86	Facial landmark detection by semi-supervised deep learning. Neurocomputing, 2018, 297, 22-32.	5.9	32
87	Real-time and light-weighted unsupervised video object segmentation network. Pattern Recognition, 2021, 120, 108120.	8.1	31
88	Super-Trajectory for Video Segmentation. , 2017, , .		30
89	Video Object Segmentation Using Global and Instance Embedding Learning. , 2021, , .		29
90	Motion-Aware Rapid Video Saliency Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4887-4898.	8.3	28

#	Article	IF	Citations
91	Linearization to Nonlinear Learning for Visual Tracking. , 2015, , .		27
92	A Color Image Encryption Algorithm Based on Magic Cube Transformation and Modular Arithmetic Operation. Lecture Notes in Computer Science, 2005, , 270-280.	1.3	26
93	Real-time feature-aware video abstraction. Visual Computer, 2008, 24, 727-734.	3.5	26
94	Scene text recognition using residual convolutional recurrent neural network. Machine Vision and Applications, 2018, 29, 861-871.	2.7	26
95	Understanding More About Human and Machine Attention in Deep Neural Networks. IEEE Transactions on Multimedia, 2021, 23, 2086-2099.	7.2	26
96	Hierarchical Human Semantic Parsing with Comprehensive Part-Relation Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	26
97	Selective Video Object Cutout. IEEE Transactions on Image Processing, 2017, 26, 5645-5655.	9.8	25
98	Superpixel Optimization Using Higher Order Energy. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 917-927.	8.3	24
99	Real-time saliency-aware video abstraction. Visual Computer, 2009, 25, 973-984.	3.5	22
100	Fast approximation of trilateral filter for tone mapping using a signal processing approach. Signal Processing, 2009, 89, 901-907.	3.7	21
101	Hierarchical Superpixel-to-Pixel Dense Matching. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2518-2526.	8.3	19
102	Detail-preserving exposure fusion using subband architecture. Visual Computer, 2012, 28, 463-473.	3.5	17
103	Better Dense Trajectories by Motion in Videos. IEEE Transactions on Cybernetics, 2019, 49, 159-170.	9.5	17
104	Completion-based texture design using deformation. Visual Computer, 2006, 22, 936-945.	3.5	16
105	Interactive image/video retexturing using GPU parallelism. Computers and Graphics, 2012, 36, 1048-1059.	2.5	16
106	Adaptive Nonlocal Random Walks for Image Superpixel Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 822-834.	8.3	16
107	Multiple people tracking with articulation detection and stitching strategy. Neurocomputing, 2020, 386, 18-29.	5.9	16
108	Visual Tracking by Sampling in Part Space. IEEE Transactions on Image Processing, 2017, 26, 5800-5810.	9.8	15

#	Article	IF	Citations
109	Robust Object Tracking by Nonlinear Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4769-4781.	11.3	15
110	Multi-scale Capsule Attention-Based Salient Object Detection with Multi-crossed Layer Connections. , 2019, , .		15
111	Text Image Deblurring Using Kernel Sparsity Prior. IEEE Transactions on Cybernetics, 2020, 50, 997-1008.	9.5	14
112	Single-Image Distance Measurement by a Smart Mobile Device. IEEE Transactions on Cybernetics, 2017, 47, 4451-4462.	9.5	13
113	Stereo Video Object Segmentation Using Stereoscopic Foreground Trajectories. IEEE Transactions on Cybernetics, 2019, 49, 3665-3676.	9.5	13
114	One-Stage Anchor-Free 3D Vehicle Detection from LiDAR Sensors. Sensors, 2021, 21, 2651.	3.8	13
115	High dynamic range image tone mapping and retexturing using fast trilateral filtering. Visual Computer, 2007, 23, 641-650.	3.5	12
116	Image stylization with enhanced structure on GPU. Science China Information Sciences, 2012, 55, 1093-1105.	4.3	12
117	A stable long-term object tracking method with re-detection strategy. Pattern Recognition Letters, 2019, 127, 119-127.	4.2	12
118	MSB-FCN: Multi-Scale Bidirectional FCN for Object Skeleton Extraction. IEEE Transactions on Image Processing, 2021, 30, 2301-2312.	9.8	12
119	AtelierM++: a fast and accurate marbling system. Multimedia Tools and Applications, 2009, 44, 187-203.	3.9	11
120	Saliency Cut in Stereo Images. , 2013, , .		11
121	Accurate Normal and Reflectance Recovery Using Energy Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 212-224.	8.3	11
122	A Retrospective Comparison of Deep Learning to Manual Annotations for Optic Disc and Optic Cup Segmentation in Fundus Photographs. Translational Vision Science and Technology, 2020, 9, 33.	2.2	11
123	Improving Single Shot Object Detection With Feature Scale Unmixing. IEEE Transactions on Image Processing, 2021, 30, 2708-2721.	9.8	11
124	Re-texturing by intrinsic video. Information Sciences, 2014, 281, 726-735.	6.9	10
125	Learning to detect stereo saliency. , 2014, , .		9
126	Capturing Relevant Context for Visual Tracking. IEEE Transactions on Multimedia, 2021, 23, 4232-4244.	7.2	9

#	ARTICLE	IF	CITATIONS
127	Video person re-identification with global statistic pooling and self-attention distillation. Neurocomputing, 2021, 453, 777-789.	5.9	8
128	Deformation-based interactive texture design using energy optimization. Visual Computer, 2007, 23, 631-639.	3.5	7
129	Segmentation Using SubMarkov Random Walk. Lecture Notes in Computer Science, 2015, , 237-248.	1.3	7
130	Structured-Patch Optimization for Dense Correspondence. IEEE Transactions on Multimedia, 2015, 17, 295-306.	7.2	7
131	Multi-attention deep reinforcement learning and re-ranking for vehicle re-identification. Neurocomputing, 2020, 414, 27-35.	5.9	7
132	High-speed video salient object detection with temporal propagation using correlation filter. Neurocomputing, 2019, 356, 107-118.	5.9	6
133	Real-time photo style transfer. , 2009, , .		5
134	Fast and Reliable Mouse Picking Using Graphics Hardware. International Journal of Computer Games Technology, 2009, 2009, 1-7.	2.5	4
135	Diffusion-based saliency detection with optimal seed selection scheme. Neurocomputing, 2017, 239, 94-101.	5.9	4
136	Person Foreground Segmentation by Learning Multi-Domain Networks. IEEE Transactions on Image Processing, 2022, 31, 585-597.	9.8	4
137	Double-Row License Plate Segmentation with Convolutional Neural Networks. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2019, 31, 1320.	0.2	4
138	A unified framework for designing textures using energy optimization. Pattern Recognition, 2010, 43, 457-469.	8.1	3
139	Re-texturing by Intrinsic Video. , 2010, , .		3
140	Dynamic Textures Using Wavelet Analysis. Lecture Notes in Computer Science, 2006, , 1070-1073.	1.3	3
141	Depth-Aware Video Abstraction. , 2010, , .		2
142	Efficient image/video retexturing using parallel bilateral grids. , 2011, , .		2
143	Automatic image vectorization using superpixels and random walkers. , 2013, , .		2
144	Subband Architecture Based Exposure Fusion. , 2010, , .		1

#	Article	IF	Citations
145	HDR IMAGE RERENDERING USING GPU-BASED PROCESSING. International Journal of Image and Graphics, 2012, 12, 1250007.	1.5	1
146	Fast DCT-based image saliency detection. , 2012, , .		1
147	Stereoscopic 3D crosstalk prediction. , 2014, , .		1
148	Consistent 2D-to-3D video conversion using spatial-temporal nonlocal random walks. , 2016, , .		1
149	Editorial: Booming of Neural Networks and Learning Systems. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2-10.	11.3	1
150	Simple and Fast Terrain Rendering Using Graphics Hardware. Lecture Notes in Computer Science, 2006, , 715-723.	1.3	1
151	Feature-Based Texture Design Using Deformation Techniques. , 2007, , 730-739.		1
152	Fast Shape-Simplifying Image Abstraction Using Graphics Hardware. Lecture Notes in Computer Science, 2009, , 390-398.	1.3	1
153	Fast gradient-aware upsampling for cartoon video. , 2010, , .		0
154	Mesh-guided texture replacement using intrinsic images. , 2010, , .		0
155	Superpixels using random walker. , 2012, , .		0
156	Supervoxel using random walks. , 2014, , .		0
157	A new sparse feature-based patch for dense correspondence. , 2014, , .		0
158	Robust Stereoscopic Crosstalk Prediction. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1158-1168.	8.3	0
159	Efficient Light Deep Network for Street Scene Parsing. , 2020, , .		0