Jianbing Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149 papers	7,782 citations	50 h-index	85 g-index
161 ext. papers	9,962 ext. citations	6.2 avg, IF	7.26 L-index

#	Paper	IF	Citations
149	Learning to Fuse Asymmetric Feature Maps in Siamese Trackers **2021**,		21
148	One-Stage Anchor-Free 3D Vehicle Detection from LiDAR Sensors. *Sensors*, **2021**, 21,	3.8	4
147	Paying Attention to Video Object Pattern Understanding. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 2413-2428	13.3	23
146	Visible-Infrared Person Re-Identification via Homogeneous Augmented Tri-Modal Learning. *IEEE Transactions on Information Forensics and Security*, **2021**, 16, 728-739	8	60
145	Video person re-identification with global statistic pooling and self-attention distillation. *Neurocomputing*, **2021**, 453, 777-789	5.4	2
144	Revisiting Video Saliency Prediction in the Deep Learning Era. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 220-237	13.3	108
143	Dynamical Hyperparameter Optimization via Deep Reinforcement Learning in Tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 1515-1529	13.3	55
142	Siamese Network for RGB-D Salient Object Detection and Beyond. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	24
141	Re-thinking Co-Salient Object Detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	12
140	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
139	MSB-FCN: Multi-Scale Bidirectional FCN for Object Skeleton Extraction. *IEEE Transactions on Image Processing*, **2021**, 30, 2301-2312	8.7	4
138	Cascaded Parsing of Human-Object Interaction Recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	22
137	Person Re-Identification by Context-aware Part Attention and Multi-Head Collaborative Learning. *IEEE Transactions on Information Forensics and Security*, **2021**, 1-1	8	10
136	Improving Single Shot Object Detection With Feature Scale Unmixing. *IEEE Transactions on Image Processing*, **2021**, 30, 2708-2721	8.7	3
135	Real-time and light-weighted unsupervised video object segmentation network. *Pattern Recognition*, **2021**, 120, 108120	7.7	3
134	RGB-D salient object detection: A survey. *Computational Visual Media*, **2021**, 7, 1-33	3.9	47
133	Hierarchical Human Semantic Parsing with Comprehensive Part-Relation Modeling. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	9

132	Deep Learning for Person Re-identification: A Survey and Outlook. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	209
131	Full-Duplex Strategy for Video Object Segmentation **2021**,		7
130	Reducing Estimation Bias via Triplet-Average Deep Deterministic Policy Gradient. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 4933-4945	10.3	10
129	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	3.3	4
128	Zero-Shot Video Object Segmentation with Co-Attention Siamese Networks. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, PP,	13.3	22
127	Deep Object Tracking with Shrinkage Loss. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, PP,	13.3	18
126	. *IEEE Transactions on Multimedia*, **2020**, 1-1	6.6	4
125	CLNet: A Compact Latent Network for Fast Adjusting Siamese Trackers. *Lecture Notes in Computer Science*, **2020**, 378-395	0.9	21
124	Video Object Segmentation with Episodic Graph Memory Networks. *Lecture Notes in Computer Science*, **2020**, 661-679	0.9	49
123	Multiple people tracking with articulation detection and stitching strategy. *Neurocomputing*, **2020**, 386, 18-29	5.4	8
122	. *IEEE Transactions on Multimedia*, **2020**, 1-1	6.6	7
121	Multi-attention deep reinforcement learning and re-ranking for vehicle re-identification. *Neurocomputing*, **2020**, 414, 27-35	5.4	4
120	Augmentation Invariant and Instance Spreading Feature for Softmax Embedding. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, PP,	13.3	42
119	MATNet: Motion-Attentive Transition Network for Zero-Shot Video Object Segmentation. *IEEE Transactions on Image Processing*, **2020**, PP,	8.7	41
118	Learning Video Object Segmentation From Unlabeled Videos **2020**,		54
117	Text Image Deblurring Using Kernel Sparsity Prior. *IEEE Transactions on Cybernetics*, **2020**, 50, 997-1008	10.2	9
116	Adaptive Nonlocal Random Walks for Image Superpixel Segmentation. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 822-834	6.4	11
115	Inferring Salient Objects from Human Fixations. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 1913-1927	13.3	70

114	Motion-Aware Rapid Video Saliency Detection. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 4887-4898	6.4	16
113	Visual Object Tracking by Hierarchical Attention Siamese Network. *IEEE Transactions on Cybernetics*, **2020**, 50, 3068-3080	10.2	63
112	High-speed video salient object detection with temporal propagation using correlation filter. *Neurocomputing*, **2019**, 356, 107-118	5.4	5
111	A deep Coarse-to-Fine network for head pose estimation from synthetic data. *Pattern Recognition*, **2019**, 94, 196-206	7.7	29
110	Quadruplet Network With One-Shot Learning for Fast Visual Object Tracking. *IEEE Transactions on Image Processing*, **2019**, 28, 3516-3527	8.7	121
109	Submodular Function Optimization for Motion Clustering and Image Segmentation. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 2637-2649	10.3	34
108	. *IEEE Transactions on Multimedia*, **2019**, 21, 510-521	6.6	32
107	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
106	Multi-scale Capsule Attention-Based Salient Object Detection with Multi-crossed Layer Connections **2019**,		7
105	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	0.6	2
104	ET-Net: A Generic Edge-aTtention Guidance Network for Medical Image Segmentation. *Lecture Notes in Computer Science*, **2019**, 442-450	0.9	50
103	Local Semantic Siamese Networks for Fast Tracking. *IEEE Transactions on Image Processing*, **2019**,	8.7	72
102	Towards Bridging Semantic Gap to Improve Semantic Segmentation **2019**,		37
101	Zero-Shot Video Object Segmentation via Attentive Graph Neural Networks **2019**,		93
100	Salient Object Detection With Pyramid Attention and Salient Edges **2019**,		174
99	**2019**,		53
98	Learning Compositional Neural Information Fusion for Human Parsing **2019**,		40
97	**2019**,		75

96	**2019**,		161
95	Shifting More Attention to Video Salient Object Detection **2019**,		173
94	A stable long-term object tracking method with re-detection strategy. *Pattern Recognition Letters*, **2019**, 127, 119-127	4.7	5
93	Better Dense Trajectories by Motion in Videos. *IEEE Transactions on Cybernetics*, **2019**, 49, 159-170	10.2	13
92	Video Saliency Prediction using Spatiotemporal Residual Attentive Networks. *IEEE Transactions on Image Processing*, **2019**,	8.7	55
91	Submodular Trajectories for Better Motion Segmentation in Videos. *IEEE Transactions on Image Processing*, **2018**,	8.7	71
90	Facial landmark detection by semi-supervised deep learning. *Neurocomputing*, **2018**, 297, 22-32	5.4	20
89	Deep Visual Attention Prediction. *IEEE Transactions on Image Processing*, **2018**, 27, 2368-2378	8.7	358
88	Video Saliency Detection Using Object Proposals. *IEEE Transactions on Cybernetics*, **2018**, 48, 3159-3170	10.2	60
87	Robust Object Tracking by Nonlinear Learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 4769-4781	10.3	12
86	Fast Online Tracking With Detection Refinement. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 162-173	6.1	64
85	Robust Stereoscopic Crosstalk Prediction. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 1158-1168	6.4	
84	Manifold Regularized Correlation Object Tracking. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 1786-1795	10.3	29
83	Saliency-Aware Video Object Segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2018**, 40, 20-33	13.3	268
82	Video Co-Saliency Guided Co-Segmentation. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 1727-1736	6.4	46
81	Video Salient Object Detection via Fully Convolutional Networks. *IEEE Transactions on Image Processing*, **2018**, 27, 38-49	8.7	382
80	Parallel and efficient approximate nearest patch matching for image editing applications. *Neurocomputing*, **2018**, 305, 39-50	5.4	25
79	Scene text recognition using residual convolutional recurrent neural network. *Machine Vision and Applications*, **2018**, 29, 861-871	2.8	15

78	Stereo Video Object Segmentation Using Stereoscopic Foreground Trajectories. *IEEE Transactions on Cybernetics*, **2018**,	10.2	8
77	Learning Human-Object Interactions by Graph Parsing Neural Networks. *Lecture Notes in Computer Science*, **2018**, 407-423	0.9	117
76	Triplet Loss in Siamese Network for Object Tracking. *Lecture Notes in Computer Science*, **2018**, 472-488	0.9	171
75	Semi-Supervised Video Object Segmentation with Super-Trajectories. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2018**,	13.3	82
74	Multiobject Tracking by Submodular Optimization. *IEEE Transactions on Cybernetics*, **2018**,	10.2	49
73	Attentive Fashion Grammar Network for Fashion Landmark Detection and Clothing Category Classification **2018**,		101
72	Salient Object Detection Driven by Fixation Prediction **2018**,		91
71	Revisiting Video Saliency: A Large-Scale Benchmark and a New Model **2018**,		98
70	Hyperparameter Optimization for Tracking with Continuous Deep Q-Learning **2018**,		75
69	Pyramid Dilated Deeper ConvLSTM for Video Salient Object Detection. *Lecture Notes in Computer Science*, **2018**, 744-760	0.9	132
68	Diffusion-based saliency detection with optimal seed selection scheme. *Neurocomputing*, **2017**, 239, 94-101	5.4	4
67	. *IEEE Transactions on Multimedia*, **2017**, 19, 763-771	6.6	146
66	Stereoscopic Thumbnail Creation via Efficient Stereo Saliency Detection. *IEEE Transactions on Visualization and Computer Graphics*, **2017**, 23, 2014-2027	4	106
65	Visual Tracking by Sampling in Part Space. *IEEE Transactions on Image Processing*, **2017**, 26, 5800-5810	8.7	14
64	Selective Video Object Cutout. *IEEE Transactions on Image Processing*, **2017**, 26, 5645-5655	8.7	16
63	Higher Order Energies for Image Segmentation. *IEEE Transactions on Image Processing*, **2017**, 26, 4911-4922	8.7	64
62	Hierarchical Superpixel-to-Pixel Dense Matching. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 2518-2526	6.4	14
61	Single-Image Distance Measurement by a Smart Mobile Device. *IEEE Transactions on Cybernetics*, **2017**, 47, 4451-4462	10.2	7

60	Deep Cropping via Attention Box Prediction and Aesthetics Assessment **2017**,		44
59	Super-Trajectory for Video Segmentation **2017**,		22
58	Discriminative Tracking Using Tensor Pooling. *IEEE Transactions on Cybernetics*, **2016**, 46, 2411-2422	10.2	48
57	Video Supervoxels Using Partially Absorbing Random Walks. *IEEE Transactions on Circuits and Systems for Video Technology*, **2016**, 26, 928-938	6.4	31
56	Superpixel Optimization Using Higher Order Energy. *IEEE Transactions on Circuits and Systems for Video Technology*, **2016**, 26, 917-927	6.4	21
55	Correspondence Driven Saliency Transfer. *IEEE Transactions on Image Processing*, **2016**, 25, 5025-5034	8.7	115
54	Augmented reality based real-time subcutaneous vein imaging system. *Biomedical Optics Express*, **2016**, 7, 2565-85	3.5	29
53	Sub-Markov Random Walk for Image Segmentation. *IEEE Transactions on Image Processing*, **2016**, 25, 516-27	8.7	154
52	High-Order Energies for Stereo Segmentation. *IEEE Transactions on Cybernetics*, **2016**, 46, 1616-27	10.2	39
51	Generalized Pooling for Robust Object Tracking. *IEEE Transactions on Image Processing*, **2016**, 25, 4199-4208	8.7	45
50	. *IEEE Transactions on Multimedia*, **2016**, 18, 1011-1021	6.6	51
49	Real-Time Superpixel Segmentation by DBSCAN Clustering Algorithm. *IEEE Transactions on Image Processing*, **2016**, 25, 5933-5942	8.7	196
48	Visual Tracking Under Motion Blur. *IEEE Transactions on Image Processing*, **2016**, 25, 5867-5876	8.7	55
47	. *IEEE Transactions on Multimedia*, **2015**, 17, 295-306	6.6	7
46	Robust video object cosegmentation. *IEEE Transactions on Image Processing*, **2015**, 24, 3137-48	8.7	120
45	Accurate Normal and Reflectance Recovery Using Energy Optimization. *IEEE Transactions on Circuits and Systems for Video Technology*, **2015**, 25, 212-224	6.4	9
44	. *IEEE Transactions on Multimedia*, **2015**, 17, 1818-1828	6.6	97
43	Interactive Cosegmentation Using Global and Local Energy Optimization. *IEEE Transactions on Image Processing*, **2015**, 24, 3966-77	8.7	57

42	Robust Match Fusion Using Optimization. *IEEE Transactions on Cybernetics*, **2015**, 45, 1549-60	10.2	24
41	Linearization to Nonlinear Learning for Visual Tracking **2015**,		23
40	Saliency-aware geodesic video object segmentation **2015**,		240
39	Consistent Video Saliency Using Local Gradient Flow Optimization and Global Refinement. *IEEE Transactions on Image Processing*, **2015**, 24, 4185-96	8.7	248
38	. *IEEE Transactions on Multimedia*, **2015**, 17, 2225-2234	6.6	50
37	Segmentation Using SubMarkov Random Walk. *Lecture Notes in Computer Science*, **2015**, 237-248	0.9	6
36	Lazy random walks for superpixel segmentation. *IEEE Transactions on Image Processing*, **2014**, 23, 1451-62	8.7	246
35	Learning to detect stereo saliency **2014**,		6
34	Stereoscopic 3D crosstalk prediction **2014**,		1
33	Exposure fusion using boosting Laplacian pyramid. *IEEE Transactions on Cybernetics*, **2014**, 44, 1579-90	10.2	91
32	Interactive Segmentation Using Constrained Laplacian Optimization. *IEEE Transactions on Circuits and Systems for Video Technology*, **2014**, 24, 1088-1100	6.4	70
31	Re-texturing by intrinsic video. *Information Sciences*, **2014**, 281, 726-735	7.7	9
30	Depth-aware image seam carving. *IEEE Transactions on Cybernetics*, **2013**, 43, 1453-61	10.2	46
29	Automatic image vectorization using superpixels and random walkers **2013**,		1
28	Saliency Cut in Stereo Images **2013**,		9
27	Intrinsic Image Decomposition Using Optimization and User Scribbles. *IEEE Transactions on Cybernetics*, **2013**, 43, 425-36	10.2	52
26	Interactive image/video retexturing using GPU parallelism. *Computers and Graphics*, **2012**, 36, 1048-1059	1.8	11
25	Fast DCT-based image saliency detection **2012**,		1

24	Image stylization with enhanced structure on GPU. *Science China Information Sciences*, **2012**, 55, 1093-1105	3.4	8
23	Detail-preserving exposure fusion using subband architecture. *Visual Computer*, **2012**, 28, 463-473	2.3	13
22	HDR IMAGE RERENDERING USING GPU-BASED PROCESSING. *International Journal of Image and Graphics*, **2012**, 12, 1250007	0.5	
21	Efficient image/video retexturing using parallel bilateral grids **2011**,		1
20	Intrinsic images using optimization **2011**,		79
19	Re-texturing by Intrinsic Video **2010**,		3
18	Depth-Aware Video Abstraction **2010**,		2
17	A unified framework for designing textures using energy optimization. *Pattern Recognition*, **2010**, 43, 457-469	7.7	3
16	Fast and Reliable Mouse Picking Using Graphics Hardware. *International Journal of Computer Games Technology*, **2009**, 2009, 1-7	4.8	1
15	Real-time photo style transfer **2009**,		4
14	AtelierM++: a fast and accurate marbling system. *Multimedia Tools and Applications*, **2009**, 44, 187-203	2.5	7
13	Real-time saliency-aware video abstraction. *Visual Computer*, **2009**, 25, 973-984	2.3	20
12	Fast approximation of trilateral filter for tone mapping using a signal processing approach. *Signal Processing*, **2009**, 89, 901-907	4.4	15
11	Fast Shape-Simplifying Image Abstraction Using Graphics Hardware. *Lecture Notes in Computer Science*, **2009**, 390-398	0.9	1
10	Real-time feature-aware video abstraction. *Visual Computer*, **2008**, 24, 727-734	2.3	22
9	Gradient based image completion by solving the Poisson equation. *Computers and Graphics*, **2007**, 31, 119-126	1.8	49
8	Deformation-based interactive texture design using energy optimization. *Visual Computer*, **2007**, 23, 631-639	2.3	6
7	High dynamic range image tone mapping and retexturing using fast trilateral filtering. *Visual Computer*, **2007**, 23, 641-650	2.3	9

6	Feature-Based Texture Design Using Deformation Techniques **2007**, 730-739		1
5	Completion-based texture design using deformation. *Visual Computer*, **2006**, 22, 936-945	2.3	15
4	Dynamic Textures Using Wavelet Analysis. *Lecture Notes in Computer Science*, **2006**, 1070-1073	0.9	1
3	Simple and Fast Terrain Rendering Using Graphics Hardware. *Lecture Notes in Computer Science*, **2006**, 715-723	0.9	1
2	A Color Image Encryption Algorithm Based on Magic Cube Transformation and Modular Arithmetic Operation. *Lecture Notes in Computer Science*, **2005**, 270-280	0.9	17
1	Gradient Based Image Completion by Solving Poisson Equation. *Lecture Notes in Computer Science*, **2005**, 257-268	0.9	5