

Shengfeng He

List of Publications by Year in descending order

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77
papers

2,533
citations

471371

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docs citations

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times ranked

2091
citing authors

#	ARTICLE	IF	CITATIONS
1	RGBD Salient Object Detection via Deep Fusion. IEEE Transactions on Image Processing, 2017, 26, 2274-2285.	6.0	291
2	Visual Tracking via Locality Sensitive Histograms. , 2013, , .		237
3	SuperCNN: A Superpixelwise Convolutional Neural Network for Salient Object Detection. International Journal of Computer Vision, 2015, 115, 330-344.	10.9	219
4	SINet: A Scale-Insensitive Convolutional Neural Network for Fast Vehicle Detection. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1010-1019.	4.7	199
5	Real-Time Salient Object Detection with a Minimum Spanning Tree. , 2016, , .		192
6	DeshadowNet: A Multi-context Embedding Deep Network for Shadow Removal. , 2017, , .		149
7	Self-Supervised Spatio-Temporal Representation Learning for Videos by Predicting Motion and Appearance Statistics. , 2019, , .		114
8	Single Image Reflection Removal Beyond Linearity. , 2019, , .		76
9	Learning to Hallucinate Face Images via Component Generation and Enhancement. , 2017, , .		75
10	Joint Face Hallucination and Deblurring via Structure Generation and Detail Enhancement. International Journal of Computer Vision, 2019, 127, 785-800.	10.9	44
11	FormResNet: Formatted Residual Learning for Image Restoration. , 2017, , .		43
12	Reciprocal Transformations for Unsupervised Video Object Segmentation. , 2021, , .		39
13	Delving into Salient Object Subitizing and Detection. , 2017, , .		37
14	Saliency-Guided Color-to-Gray Conversion Using Region-Based Optimization. IEEE Transactions on Image Processing, 2015, 24, 434-443.	6.0	36
15	TENet: Triple Excitation Network for Video Salient Object Detection. Lecture Notes in Computer Science, 2020, , 212-228.	1.0	36
16	Crowd Counting Via Cross-Stage Refinement Networks. IEEE Transactions on Image Processing, 2020, 29, 6800-6812.	6.0	35
17	Projecting Your View Attentively: Monocular Road Scene Layout Estimation via Cross-view Transformation. , 2021, , .		35
18	Unsupervised Domain Adaptation via Importance Sampling. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4688-4699.	5.6	30

#	ARTICLE	IF	CITATIONS
19	Saliency Detection with Flash and No-flash Image Pairs. Lecture Notes in Computer Science, 2014, , 110-124.	1.0	30
20	Deformable Object Tracking With Gated Fusion. IEEE Transactions on Image Processing, 2019, 28, 3766-3777.	6.0	29
21	Example-Based Colourization Via Dense Encoding Pyramids. Computer Graphics Forum, 2020, 39, 20-33.	1.8	28
22	L_0 -Regularized Image Downscaling. IEEE Transactions on Image Processing, 2018, 27, 1076-1085.	6.0	27
23	Fast Weighted Histograms for Bilateral Filtering and Nearest Neighbor Searching. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 891-902.	5.6	24
24	Exemplar-Driven Top-Down Saliency Detection via Deep Association. , 2016, , .		23
25	Stylizing face images via multiple exemplars. Computer Vision and Image Understanding, 2017, 162, 135-145.	3.0	22
26	Discovering Interpretable Latent Space Directions of GANs Beyond Binary Attributes. , 2021, , .		22
27	Visualizing the Invisible: Occluded Vehicle Segmentation and Recovery. , 2019, , .		21
28	Image captioning via semantic element embedding. Neurocomputing, 2020, 395, 212-221.	3.5	19
29	Learning Long-Term Structural Dependencies for Video Salient Object Detection. IEEE Transactions on Image Processing, 2020, 29, 9017-9031.	6.0	19
30	Deep unsupervised pixelization. ACM Transactions on Graphics, 2018, 37, 1-11.	4.9	18
31	Spatially-invariant Style-codes Controlled Makeup Transfer. , 2021, , .		18
32	Real-time smoke simulation with improved turbulence by spatial adaptive vorticity confinement. Computer Animation and Virtual Worlds, 2011, 22, 107-114.	0.7	17
33	Robust Object Tracking via Locality Sensitive Histograms. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1006-1017.	5.6	17
34	Oriented Object Proposals. , 2015, , .		16
35	SeqSeg: A sequential method to achieve nasopharyngeal carcinoma segmentation free from background dominance. Medical Image Analysis, 2022, 78, 102381.	7.0	16
36	Synthetic Controllable Turbulence Using Robust Second Vorticity Confinement. Computer Graphics Forum, 2013, 32, 27-35.	1.8	14

#	ARTICLE	IF	CITATIONS
37	A Tool-Free Calibration Method for Turntable-Based 3D Scanning Systems. IEEE Computer Graphics and Applications, 2016, 36, 52-61.	1.0	14
38	Transductive Zero-Shot Action Recognition via Visually Connected Graph Convolutional Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3761-3769.	7.2	14
39	Joint Image Denoising and Disparity Estimation via Stereo Structure PCA and Noise-Tolerant Cost. International Journal of Computer Vision, 2017, 124, 204-222.	10.9	13
40	Egocentric Temporal Action Proposals. IEEE Transactions on Image Processing, 2018, 27, 764-777.	6.0	13
41	Efficient image super-resolution integration. Visual Computer, 2018, 34, 1065-1076.	2.5	13
42	Exploring Duality in Visual Question-Driven Top-Down Saliency. IEEE Transactions on Neural Networks and Learning Systems, 2019, 31, 1-8.	7.2	13
43	Blind Image Denoising via Dynamic Dual Learning. IEEE Transactions on Multimedia, 2021, 23, 2139-2152.	5.2	13
44	Context-Aware Spatio-Recurrent Curvilinear Structure Segmentation. , 2019, , .		12
45	Age estimation via attribute-region association. Neurocomputing, 2019, 367, 346-356.	3.5	11
46	Boundary-Aware RGBD Salient Object Detection With Cross-Modal Feature Sampling. IEEE Transactions on Image Processing, 2020, 29, 9496-9507.	6.0	11
47	Few-Shot Breast Cancer Metastases Classification via Unsupervised Cell Ranking. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1914-1923.	1.9	10
48	Fast User-Guided Single Image Reflection Removal via Edge-Aware Cascaded Networks. IEEE Transactions on Multimedia, 2020, 22, 2012-2023.	5.2	9
49	Egocentric Hand Detection Via Dynamic Region Growing. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-17.	3.0	9
50	CrowdGAN: Identity-Free Interactive Crowd Video Generation and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2856-2871.	9.7	9
51	Proposal-Driven Segmentation for Videos. IEEE Signal Processing Letters, 2019, 26, 1098-1102.	2.1	8
52	Deep binocular tone mapping. Visual Computer, 2019, 35, 997-1011.	2.5	8
53	Invertible Grayscale via Dual Features Ensemble. IEEE Access, 2020, 8, 89670-89679.	2.6	8
54	Multi-View Face Synthesis via Progressive Face Flow. IEEE Transactions on Image Processing, 2021, 30, 6024-6035.	6.0	8

#	ARTICLE	IF	CITATIONS
55	Delving Deep into Many-to-many Attention for Few-shot Video Object Segmentation. , 2021, , .		8
56	Deep Multiview Clustering via Iteratively Self-Supervised Universal and Specific Space Learning. IEEE Transactions on Cybernetics, 2022, 52, 11734-11746.	6.2	7
57	Keyword-driven image captioning via Context-dependent Bilateral LSTM. , 2017, , .		6
58	Mask-ShadowNet: Toward Shadow Removal via Masked Adaptive Instance Normalization. IEEE Signal Processing Letters, 2021, 28, 957-961.	2.1	5
59	GDFace: Gated Deformation for Multi-View Face Image Synthesis. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 12532-12540.	3.6	5
60	Pro-PULSE: Learning Progressive Encoders of Latent Semantics in GANs for Photo Upsampling. IEEE Transactions on Image Processing, 2022, 31, 1230-1242.	6.0	5
61	Video Snapshot: Single Image Motion Expansion via Invertible Motion Embedding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4491-4504.	9.7	4
62	Smart Scribbles for Image Matting. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-21.	3.0	4
63	Consistent stereo image editing. , 2013, , .		3
64	Stereo Object Proposals. IEEE Transactions on Image Processing, 2017, 26, 671-683.	6.0	3
65	Two-Stage Photograph Cartoonization via Line Tracing. Computer Graphics Forum, 2020, 39, 587-599.	1.8	3
66	Real-Time Hierarchical Supervoxel Segmentation via a Minimum Spanning Tree. IEEE Transactions on Image Processing, 2020, 29, 9665-9677.	6.0	3
67	Weakly supervised segmentation via instance-aware propagation. Neurocomputing, 2021, 447, 1-9.	3.5	3
68	An Efficient Adaptive Vortex Particle Method for Real-Time Smoke Simulation. , 2011, , .		2
69	JOint Shape Matching for Overlapping Cytoplasm Segmentation in Cervical Smear Images. , 2019, , .		2
70	Holistically Associated Transductive Zero-Shot Learning. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 437-447.	2.6	2
71	Interactive Hierarchical Object Proposals. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2552-2566.	5.6	1
72	Coupled Rain Streak and Background Estimation via Separable Element-Wise Attention. IEEE Access, 2020, 8, 16627-16636.	2.6	1

#	ARTICLE	IF	CITATIONS
73	Deep Pixel-Level Matching via Attention for Video Co-Segmentation. Applied Sciences (Switzerland), 2020, 10, 1948.	1.3	1
74	Fast scene labeling via structural inference. Neurocomputing, 2021, 442, 317-326.	3.5	1
75	Invertible Grayscale with Sparsity Enforcing Priors. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-17.	3.0	1
76	Coherence and Identity Learning for Arbitrary-length Face Video Generation. , 2021, , .		0
77	Erratum to "Multi-View Face Synthesis via Progressive Face Flow" IEEE Transactions on Image Processing, 2021, 30, 6700-6700.	6.0	0