

# Dong Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

6,542  
citations

218381

26  
h-index

214527

47  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep High-Resolution Representation Learning for Human Pose Estimation. , 2019, , .		2,434
2	Deep High-Resolution Representation Learning for Visual Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3349-3364.	9.7	1,553
3	A Convolutional Neural Network Approach for Post-Processing in HEVC Intra Coding. Lecture Notes in Computer Science, 2017, , 28-39.	1.0	211
4	Image Compression With Edge-Based Inpainting. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1273-1287.	5.6	152
5	Convolutional Neural Network-Based Block Up-Sampling for Intra Frame Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2316-2330.	5.6	103
6	M-LVC: Multiple Frames Prediction for Learned Video Compression. , 2020, , .		93
7	Image retagging. , 2010, , .		92
8	Learning a Convolutional Neural Network for Image Compact-Resolution. IEEE Transactions on Image Processing, 2019, 28, 1092-1107.	6.0	87
9	Generating Diverse Structure for Image Inpainting With Hierarchical VQ-VAE. , 2021, , .		85
10	Deep Learning-Based Video Coding. ACM Computing Surveys, 2021, 53, 1-35.	16.1	78
11	An Efficient Four-Parameter Affine Motion Model for Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1934-1948.	5.6	73
12	Convolutional Neural Network-Based Fractional-Pixel Motion Compensation. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 840-853.	5.6	64
13	Pseudo-Sequence-Based 2-D Hierarchical Coding Structure for Light-Field Image Compression. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 1107-1119.	7.3	63
14	End-to-End Optimized Versatile Image Compression With Wavelet-Like Transform. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1247-1263.	9.7	61
15	Comparative Deep Learning of Hybrid Representations for Image Recommendations. , 2016, , .		60
16	One-for-All: Grouped Variation Network-Based Fractional Interpolation in Video Coding. IEEE Transactions on Image Processing, 2019, 28, 2140-2151.	6.0	55
17	DADA: Deep Adversarial Data Augmentation for Extremely Low Data Regime Classification. , 2019, , .		53
18	E2I: Generative Inpainting From Edge to Image. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1308-1322.	5.6	48

#	ARTICLE	IF	CITATIONS
19	A novel fuzzy classification entropy approach to image thresholding. Pattern Recognition Letters, 2006, 27, 1968-1975.	2.6	46
20	Convolutional Neural Network-Based Block Up-Sampling for HEVC. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3701-3715.	5.6	46
21	A convolutional neural network approach for half-pel interpolation in video coding. , 2017, , .		45
22	Light Field Super-Resolution with Zero-Shot Learning. , 2021, , .		43
23	iWave: CNN-Based Wavelet-Like Transform for Image Compression. IEEE Transactions on Multimedia, 2020, 22, 1667-1679.	5.2	42
24	Inpainting with image patches for compression. Journal of Visual Communication and Image Representation, 2012, 23, 100-113.	1.7	41
25	Zero-Shot Depth Estimation From Light Field Using A Convolutional Neural Network. IEEE Transactions on Computational Imaging, 2020, 6, 682-696.	2.6	40
26	Deep Adversarial Data Augmentation for Extremely Low Data Regimes. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 15-28.	5.6	40
27	Convolutional Neural Network-Based Motion Compensation Refinement for Video Coding. , 2018, , .		38
28	Partition-Aware Adaptive Switching Neural Networks for Post-Processing in HEVC. IEEE Transactions on Multimedia, 2020, 22, 2749-2763.	5.2	38
29	Temporal Hierarchical Attention at Category- and Item-Level for Micro-Video Click-Through Prediction. , 2018, , .		36
30	Block-Composed Background Reference for High Efficiency Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2639-2651.	5.6	35
31	A Comprehensive Benchmark for Single Image Compression Artifact Reduction. IEEE Transactions on Image Processing, 2020, 29, 7845-7860.	6.0	34
32	Learning and Fusing Multiple User Interest Representations for Micro-Video and Movie Recommendations. IEEE Transactions on Multimedia, 2021, 23, 484-496.	5.2	32
33	Fast Image Super-Resolution via Local Adaptive Gradient Field Sharpening Transform. IEEE Transactions on Image Processing, 2018, 27, 1966-1980.	6.0	31
34	Deep Learning-Based Technology in Responses to the Joint Call for Proposals on Video Compression With Capability Beyond HEVC. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 1267-1280.	5.6	31
35	$\lambda$ -Domain Rate Control Algorithm for HEVC Scalable Extension. IEEE Transactions on Multimedia, 2016, 18, 2023-2039.	5.2	30
36	Unsupervised Depth Estimation from Light Field Using a Convolutional Neural Network. , 2018, , .		30

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37	Light Field Super-Resolution By Jointly Exploiting Internal and External Similarities. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2604-2616.	5.6	29
38	Edge-Oriented Uniform Intra Prediction. IEEE Transactions on Image Processing, 2008, 17, 1827-1836.	6.0	27
39	Ensemble Learning-Based Rate-Distortion Optimization for End-to-End Image Compression. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1193-1207.	5.6	27
40	Robust Deep Co-Saliency Detection With Group Semantic and Pyramid Attention. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1-11.	7.2	25
41	Photon-Efficient 3D Imaging with A Non-local Neural Network. Lecture Notes in Computer Science, 2020, , 225-241.	1.0	23
42	Space-Time Video Super-Resolution Using Temporal Profiles. , 2020, , .		23
43	Semantics-to-Signal Scalable Image Compression with Learned Reversible Representations. International Journal of Computer Vision, 2021, 129, 2605-2621.	10.9	21
44	Social Diffusion Analysis With Common-Interest Model for Image Annotation. IEEE Transactions on Multimedia, 2016, 18, 687-701.	5.2	20
45	Deep Network-Based Frame Extrapolation With Reference Frame Alignment. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1178-1192.	5.6	20
46	BERT4SessRec. , 2019, , .		19
47	Recognizable or Not: Towards Image Semantic Quality Assessment for Compression. Sensing and Imaging, 2017, 18, 1.	1.0	18
48	Invertibility-Driven Interpolation Filter for Video Coding. IEEE Transactions on Image Processing, 2019, 28, 4912-4925.	6.0	18
49	Multiscale characterization of semicrystalline polymeric materials by synchrotron radiation X-ray and neutron scattering. Polymer Crystallization, 2019, 2, 10043.	0.5	17
50	Convolutional Neural Network-Based Invertible Half-Pixel Interpolation Filter for Video Coding. , 2018, , .		16
51	Heat Flux Correlation for Spray Cooling in the Nonboiling Regime. Heat Transfer Engineering, 2011, 32, 1075-1081.	1.2	15
52	Generative Adversarial Network-Based Frame Extrapolation for Video Coding. , 2018, , .		14
53	Traffic surveillance video coding with libraries of vehicles and background. Journal of Visual Communication and Image Representation, 2019, 60, 426-440.	1.7	14
54	Experimental study of the effects of structured surface geometry on water spray cooling performance in non-boiling regime. Frontiers in Energy, 2011, 5, 75-82.	1.2	13

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55	Spatiotemporal Generative Adversarial Network-Based Dynamic Texture Synthesis for Surveillance Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 359-373.	5.6	13
56	SSSIC: Semantics-to-Signal Scalable Image Coding With Learned Structural Representations. IEEE Transactions on Image Processing, 2021, 30, 8939-8954.	6.0	13
57	Compressed Image Restoration via Artifacts-Free PCA Basis Learning and Adaptive Sparse Modeling. IEEE Transactions on Image Processing, 2020, 29, 7399-7413.	6.0	12
58	Two-stage convolutional neural network for light field super-resolution. , 2017, , .		10
59	Deep Multi-Domain Prediction for 3D Video Coding. IEEE Transactions on Broadcasting, 2021, 67, 813-823.	2.5	10
60	Convolutional Neural Network-Based Residue Super-Resolution for Video Coding. , 2018, , .		8
61	Surveillance video coding with vehicle library. , 2017, , .		7
62	Combining directional intra prediction and intra block copy with block partition for HEVC. , 2016, , .		6
63	Neural Network-Based Arithmetic Coding for Inter Prediction Information in HEVC. , 2019, , .		6
64	E-Commerce Storytelling Recommendation Using Attentional Domain-Transfer Network and Adversarial Pre-Training. IEEE Transactions on Multimedia, 2022, 24, 506-518.	5.2	6
65	Light field super-resolution using internal and external similarities. , 2017, , .		5
66	Edge-guided generative adversarial network for image inpainting. , 2017, , .		5
67	Quadtree-Based Coding Framework for High-Density Camera Array-Based Light Field Image. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2694-2708.	5.6	5
68	Semantically Scalable Image Coding With Compression of Feature Maps. , 2020, , .		5
69	Neural-Network-Based Cross-Channel Intra Prediction. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-23.	3.0	5
70	Improving Compression Artifact Reduction via End-to-End Learning of Side Information. , 2020, , .		4
71	Surveillance video coding with dynamic textural background detection. , 2017, , .		3
72	Deep Virtual Reference Frame Generation For Multiview Video Coding. , 2020, , .		3

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73	Image semantic quality assessment for compression of car-plate images. , 2015, , .		2
74	Compression Artifact Removal with Ensemble Learning of Neural Networks. , 2020, , .		2
75	Efficient Integer-Arithmetic-Only Convolutional Networks with Bounded ReLU. , 2021, , .		2
76	iWave3D: End-to-end Brain Image Compression with Trainable 3-D Wavelet Transform. , 2021, , .		2
77	Disparity-Aware Reference Frame Generation Network for Multiview Video Coding. IEEE Transactions on Image Processing, 2022, 31, 4515-4526.	6.0	2
78	Manipulating image patches for compression. , 2008, , .		1
79	Image annotation via social diffusion analysis with common interests. , 2014, , .		1
80	Reflectance Reference for Intra-Frame Coding of Surveillance Video. Lecture Notes in Computer Science, 2018, , 481-491.	1.0	1
81	Context-Adaptive Inverse Quantization for Inter-Frame Coding. IEEE Open Journal of Circuits and Systems, 2021, 2, 660-674.	1.4	1