

Hongkai Xiong

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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.

162
papers

1,382
citations

19
h-index

31
g-index

237
ext. papers

1,788
ext. citations

5.1
avg, IF

5.01
L-index

#	Paper	IF	Citations
162	Picking Deep Filter Responses for Fine-Grained Image Recognition 2016 ,		166
161	. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 1827-1837	6.8	82
160	. <i>IEEE Transactions on Multimedia</i> , 2018 , 20, 965-984	6.6	80
159	Integral Object Mining via Online Attention Accumulation 2019 ,		48
158	Zigzag Learning for Weakly Supervised Object Detection 2018 ,		48
157	HEALER: homomorphic computation of ExAct Logistic rEgRession for secure rare disease variants analysis in GWAS. <i>Bioinformatics</i> , 2016 , 32, 211-8	7.2	37
156	FORESEE: Fully Outsourced secuRe gEnome Study basEd on homomorphic Encryption. <i>BMC Medical Informatics and Decision Making</i> , 2015 , 15 Suppl 5, S5	3.6	32
155	VERTical Grid lOgistic regression (VERTIGO). <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2016 , 23, 570-9	8.6	30
154	Endobronchial Ultrasound Elastography for Evaluation of Intrathoracic Lymph Nodes: A Pilot Study. <i>Respiration</i> , 2017 , 93, 327-338	3.7	28
153	Fused One-vs-All Features With Semantic Alignments for Fine-Grained Visual Categorization. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 878-92	8.7	28
152	Robust Subspace Clustering with Compressed Data. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	27
151	Joint Coding/Router Optimization for Distributed Video Sources in Wireless Visual Sensor Networks. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 141-155	6.4	26
150	Lifetime and Distortion Optimization With Joint Source/Channel Rate Adaptation and Network Coding-Based Error Control in Wireless Video Sensor Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 1182-1194	6.8	24
149	. <i>IEEE Transactions on Multimedia</i> , 2018 , 20, 361-378	6.6	21
148	DelayPower-Rate-Distortion Model for Wireless Video Communication Under Delay and Energy Constraints. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 1170-1183	6.4	19
147	Multiple Semantic Matching on Augmented $\mathcal{N}\mathcal{N}$ -Partite Graph for Object Co-Segmentation. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 5825-5839	8.7	19
146	Sparse Spatio-Temporal Representation With Adaptive Regularized Dictionary Learning for Low Bit-Rate Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 710-728	6.4	19

145	DNA-COMPACT: DNA COMpression based on a pattern-aware contextual modeling technique. <i>PLoS ONE</i> , 2013 , 8, e80377	3.7	19
144	A joint rate control scheme for H.264 encoding of multiple video sequences. <i>IEEE Transactions on Consumer Electronics</i> , 2005 , 51, 617-623	4.8	19
143	Rate control for real-time video network transmission on end-to-end rate-distortion and application-oriented QoS. <i>IEEE Transactions on Broadcasting</i> , 2005 , 51, 122-132	4.7	19
142	Structured Sparse Representation With Union of Data-Driven Linear and Multilinear Subspaces Model for Compressive Video Sampling. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 5062-5077	4.8	17
141	Fused one-vs-all mid-level features for fine-grained visual categorization 2014 ,		17
140	. <i>IEEE Transactions on Multimedia</i> , 2017 , 1-1	6.6	16
139	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 2749-2763	6.6	14
138	HUGO: Hierarchical mUlti-reference Genome cOMpression for aligned reads. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014 , 21, 363-73	8.6	14
137	Deep Reinforcement Learning-based Rate Adaptation for Adaptive 360-Degree Video Streaming 2019 ,		13
136	A Structured Learning-Based Graph Matching Method for Tracking Dynamic Multiple Objects. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 534-548	6.4	13
135	Group Re-Identification 2018 ,		12
134	Distributed Robust Optimization for Scalable Video Multirate Multicast Over Wireless Networks. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2012 , 22, 943-957	6.4	11
133	Dynamic Spectrum Access and Power Allocation for Cooperative Cognitive Radio Networks. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 5637-5649	4.8	10
132	Probabilistic Tile Visibility-Based Server-Side Rate Adaptation for Adaptive 360-Degree Video Streaming. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2020 , 14, 161-176	7.5	10
131	Sparse Representation With Spatio-Temporal Online Dictionary Learning for Promising Video Coding. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 4580-4595	8.7	10
130	Prioritized Flow Optimization With Multi-Path and Network Coding Based Routing for Scalable Multirate Multicasting. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 259-273	6.4	10
129	Group Reidentification with Multigrained Matching and Integration. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1478-1492	10.2	10
128	Delay-Power-Rate-Distortion Optimization of Video Representations for Dynamic Adaptive Streaming. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 1648-1664	6.4	9

127	Optimal decentralized coded caching for heterogeneous files 2017 ,		9
126	Joint Source and Flow Optimization for Scalable Video Multirate Multicast Over Hybrid Wired/Wireless Coded Networks. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 550-564	6.4	9
125	Priority Belief Propagation-Based Inpainting Prediction With Tensor Voting Projected Structure in Video Compression. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 1115-1129	6.4	9
124	Joint Pricing and Cache Placement for Video Caching: A Game Theoretic Approach. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 1566-1583	14.2	8
123	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015 , 25, 1665-1681	6.4	8
122	A hybrid wavelet convolution network with sparse-coding for image super-resolution 2016 ,		8
121	Reconstruction for Distributed Video Coding: A Context-Adaptive Markov Random Field Approach. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 1100-1114	6.4	8
120	Graph Theory Application in Cell Nucleus Segmentation, Tracking and Identification 2007 ,		8
119	RGB and HSV quantitative analysis of autofluorescence bronchoscopy used for characterization and identification of bronchopulmonary cancer. <i>Cancer Medicine</i> , 2016 , 5, 3023-3030	4.8	8
118	Transductive Video Segmentation on Tree-Structured Model. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 992-1005	6.4	7
117	Fully Decomposable Compressive Sampling With Joint Optimization for Multidimensional Sparse Representation. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 603-616	4.8	7
116	Deformable Shape Preserving Video Retargeting With Salient Curve Matching. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2014 , 4, 82-94	5.2	7
115	Joint Coding/Routing Optimization for Correlated Sources in Wireless Visual Sensor Networks 2009 ,		7
114	Subgraphs Matching-Based Side Information Generation for Distributed Multiview Video Coding. <i>Eurasip Journal on Advances in Signal Processing</i> , 2010 , 2009,	1.9	7
113	Depth Estimation From Light Field Using Graph-Based Structure-Aware Analysis. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 4269-4283	6.4	7
112	Single and Sequential Viewports Prediction for 360-Degree Video Streaming 2019 ,		6
111	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 1874-1888	6.6	6
110	Design and implementation of multiplexing rate control in broadband access network TV transmission system. <i>IEEE Transactions on Consumer Electronics</i> , 2004 , 50, 849-855	4.8	6

109	FedMax: Enabling a Highly-Efficient Federated Learning Framework 2020 ,		6
108	Privacy Preserving Federated Big Data Analysis. <i>Studies in Big Data</i> , 2018 , 49-82	0.9	6
107	Rotation Equivariant Graph Convolutional Network for Spherical Image Classification 2020 ,		6
106	Weak to Strong Detector Learning for Simultaneous Classification and Localization. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 418-432	6.4	6
105	Partially-Connected Neural Architecture Search for Reduced Computational Redundancy. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 2953-2970	13.3	6
104	Optimization-Based Decentralized Coded Caching for Files and Caches With Arbitrary Sizes. <i>IEEE Transactions on Communications</i> , 2020 , 68, 2090-2105	6.9	5
103	Large Discriminative Structured Set Prediction Modeling With Max-Margin Markov Network for Lossless Image Coding. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 541-54	8.7	5
102	. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5768-5780	9.6	5
101	Gaussian Process Regression Based Prediction for Lossless Image Coding 2014 ,		5
100	Reinforcement learning-based opportunistic routing for live video streaming over multi-hop wireless networks 2017 ,		5
99	An Error Resilient Video Coding Scheme Using Embedded Wyner-Ziv Description With Decoder Side Non-Stationary Distortion Modeling. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 498-512	6.4	5
98	Monitoring and Troubleshooting in Operational IP-TV System. <i>IEEE Transactions on Broadcasting</i> , 2007 , 53, 711-718	4.7	5
97	Incorporating Primal Sketch Based Learning Into Low Bit-Rate Image Compression 2007 ,		5
96	Design and implementation of an end-to-end system for DTV multicasting to home over broadband IP access network. <i>IEEE Transactions on Broadcasting</i> , 2005 , 51, 348-353	4.7	5
95	Attribute Mix: Semantic Data Augmentation for Fine Grained Recognition 2020 ,		5
94	. <i>IEEE Transactions on Multimedia</i> , 2016 , 18, 507-520	6.6	5
93	RAPT360: Reinforcement Learning-Based Rate Adaptation for 360-degree Video Streaming with Adaptive Prediction and Tiling. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 1-1	6.4	5
92	Server-Side Rate Adaptation for Multi-User 360-Degree Video Streaming 2018 ,		5

91	Progressive Dictionary Learning With Hierarchical Predictive Structure for Low Bit-Rate Scalable Video Coding. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 2972-2987	8.7	4
90	A Server-Side Optimized Hybrid Multicast-Unicast Strategy for Multi-User Adaptive 360-Degree Video Streaming 2019 ,		4
89	VERTICOX: Vertically Distributed Cox Proportional Hazards Model Using the Alternating Direction Method of Multipliers. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	4
88	Joint Pricing and Decision-Making for Heterogeneous User Demand in Cognitive Radio Networks. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 3873-3886	10.2	4
87	Scalable Video Compression Framework With Adaptive Orientational Multiresolution Transform and Nonuniform Directional Filterbank Design. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 1085-1099	6.4	4
86	A Cross-Resolution Leaky Prediction Scheme for In-Band Wavelet Video Coding With Spatial Scalability. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2008 , 18, 516-521	6.4	4
85	An error resilience scheme on an end-to-end distortion analysis for video transmission over Internet. <i>IEEE Transactions on Consumer Electronics</i> , 2004 , 50, 715-722	4.8	4
84	Sparse-to-Dense Depth Estimation in Videos via High-Dimensional Tensor Voting. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 68-79	6.4	4
83	Multi-User Adaptive Video Delivery Over Wireless Networks: A Physical Layer Resource-Aware Deep Reinforcement Learning Approach. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 798-815	6.4	4
82	General Bitwidth Assignment for Efficient Deep Convolutional Neural Network Quantization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	4
81	Multi-scale Spatiotemporal Information Fusion Network for Video Action Recognition 2018 ,		4
80	Key-Point Sequence Lossless Compression for Intelligent Video Analysis. <i>IEEE MultiMedia</i> , 2020 , 27, 12-22.1		3
79	Distributed wireless video caching placement for dynamic adaptive streaming 2016 ,		3
78	Union of Data-Driven Subspaces via Subspace Clustering for Compressive Video Sampling 2014 ,		3
77	3D tubular structure extraction using kernel-based superellipsoid model with Gaussian process regression 2012 ,		3
76	A generic video coding framework based on anisotropic diffusion and spatio-temporal completion 2010 ,		3
75	Correlated Data Gathering on Dynamic Network Coding Policy and Opportunistic Routing in Wireless Sensor Network 2011 ,		3
74	On Non-sequential Context Modeling with Application to Executable Data Compression. <i>Proceedings of the Data Compression Conference</i> , 2008 ,		3

73	A New Deblocking Algorithm Based on Adjusted Contourlet Transform 2006 ,		3
72	Scalable Structured Compressive Video Sampling With Hierarchical Subspace Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 3528-3543	6.4	3
71	Complementary Contextual Models with FM-Index for DNA Compression 2017 ,		2
70	Generalized Context Modeling With Multi-Directional Structuring and MDL-Based Model Selection for Heterogeneous Data Compression. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 5650-5664	4.8	2
69	Compressed Video Coding with Multi-Kernel Gaussian Process Regression 2016 ,		2
68	Optimization-based Decentralized Coded Caching for Files and Caches with Arbitrary Sizes 2019 ,		2
67	Data-driven hierarchical structure kernel for multiscale part-based object recognition. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 1765-78	8.7	2
66	Regional context model and dynamic Huffman binarization for adaptive entropy coding of multimedia 2014 ,		2
65	Dynamic rate allocation and opportunistic routing for scalable video multirate multicast over time-varying wireless networks 2014 ,		2
64	Application of Quantitative Autofluorescence Bronchoscopy Image Analysis Method in Identifying Bronchopulmonary Cancer. <i>Technology in Cancer Research and Treatment</i> , 2017 , 16, 482-487	2.7	2
63	Spatio-temporal coherence for 3-D view synthesis with curve-based disparity warping 2014 ,		2
62	An Adaptive Difference Distribution-based Coding with Hierarchical Tree Structure for DNA Sequence Compression 2013 , 2013, 371-380		2
61	Structured Set Intra Prediction With Discriminative Learning in a Max-Margin Markov Network for High Efficiency Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 1941-1956	6.4	2
60	A structured learning-based graph matching for dynamic multiple object tracking 2011 ,		2
59	Computational Graph Model for 3D Cells Tracking in Zebra Fish Datasets. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
58	Adaptive predict based on fading compensation for lifting-based motion compensated temporal filtering		2
57	A Context-Based Error Detection Strategy into H.264/AVC CABAC 2006 ,		2
56	Implementation of digital HDTV encoder with parallel sub-picture encoding modules and its joint bit-allocation strategy. <i>IEEE Transactions on Consumer Electronics</i> , 2003 , 48, 898-907	4.8	2

55	Compressive Tensor Sampling with Structured Sparsity 2016 ,		2
54	Multitask Learning of Compact Semantic Codebooks for Context-Aware Scene Modeling. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 5411-5426	8.7	2
53	DNQ: Dynamic Network Quantization 2019 ,		2
52	Multuser Video Streaming Rate Adaptation: A Physical Layer Resource-Aware Deep Reinforcement Learning Approach 2019 ,		2
51	Multi-Scale Structured Dictionary Learning for 3-D Point Cloud Attribute Compression. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 2792-2807	6.4	2
50	Structured Semantic Representation for Visual Question Answering 2018 ,		2
49	Multi-Scale Graph Convolutional Network With Spectral Graph Wavelet Frame. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2021 , 7, 595-610	2.8	2
48	Nonconvex Optimization with Alternating Direction Method of Multipliers for Tensor-Based Compressed Sensing with Group Sparsity 2017 ,		1
47	Lossy Image Compression with Filter Bank Based Convolutional Networks 2019 ,		1
46	Subspace Learning with Structured Sparsity for Compressive Video Sampling 2015 ,		1
45	Structure-Based Learning in Sampling, Representation and Analysis for Multimedia Big Data 2015 ,		1
44	Complexity constrained representation selection for dynamic adaptive streaming 2016 ,		1
43	Multiscale Edge Coding and Adaptive Lifting for Depth Maps Coding in 3-D Video 2014 ,		1
42	Delay-power-rate-distortion model for H.264 video coding 2013 ,		1
41	A scalable depth coding with arc breakpoints based synthesis in 3-D video 2013 ,		1
40	Multiscale dictionary learning for hierarchical sparse representation 2017 ,		1
39	Interactive multiview video scheduling through bargaining 2015 ,		1
38	Figure/ground video segmentation using greedy transductive cosegmentation 2014 ,		1

37	Illumination compensation via low rank matrix completion for multiview video coding 2013,		1
36	Conditional random field based side-information fusion for distributed multi-view video coding 2011,		1
35	Image super-resolution with sparse representation prior on primitive patches 2010,		1
34	Global Correlated Data Gathering in Wireless Sensor Networks with Compressive Sensing and Randomized Gossiping 2011,		1
33	Super-resolution reconstruction with prior manifold on primitive patches for video compression 2011,		1
32	Privacy-Preserving Biometric System for Secure Fingerprint Authentication 2012,		1
31	Side information generation with constrained relaxation for distributed multi-view video coding 2008,		1
30	2-D dual multiresolution decomposition through NUDFB and its application 2008,		1
29	A 3D Self-Adjust Region Growing Method for Axon Extraction 2007,		1
28	An Improved Update Operator for H.264 Scalable Extension 2005,		1
27	Contourlet Image Coding Based on Adjusted SPIHT. <i>Lecture Notes in Computer Science</i> , 2005 , 629-640	0.9	1
26	A Learning-Based Framework for Low Bit-Rate Image and Video Coding. <i>Lecture Notes in Computer Science</i> , 2009 , 232-244	0.9	1
25	PML-LocNet: Improving Object Localization with Prior-induced Multi-view Learning Network. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	1
24	REV-AE: A Learned Frame Set for Image Reconstruction 2020,		1
23	Structure-Aware Graph Construction For Point Cloud Segmentation With Graph Convolutional Networks 2020,		1
22	Lossless Compression for Video Streams with Frequency Prediction and Macro Block Merging 2021,		1
21	Automatic Image Selection Model Based on Machine Learning for Endobronchial Ultrasound Strain Elastography Videos. <i>Frontiers in Oncology</i> , 2021 , 11, 673775	5.3	1
20	A cost minimization with light field in scene depth MAP estimation 2016,		1

19	Deep learning with convex probe endobronchial ultrasound multimodal imaging: A validated tool for automated intrathoracic lymph nodes diagnosis. <i>Endoscopic Ultrasound</i> , 2021 , 10, 361-371	3.6	1
18	Multiscale Representation Learning of Graph Data With Node Affinity. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2021 , 7, 30-44	2.8	1
17	Reversible Autoencoder: A CNN-Based Nonlinear Lifting Scheme for Image Reconstruction. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 3117-3131	4.8	1
16	iPool--Information-Based Pooling in Hierarchical Graph Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	1
15	Structurally Constrained Correlation Transfer for Zero-shot Learning 2018 ,		1
14	2018 ,		1
13	Mode-based temporal filtering for in-band wavelet video coding with spatial scalability 2005 , 5960, 355		0
12	Adaptive lossless compression of skeleton sequences. <i>Signal Processing: Image Communication</i> , 2020 , 80, 115659	2.8	0
11	SEMI-SUPERVISED OBJECT RECOGNITION USING STRUCTURE KERNEL. <i>Proceedings International Conference on Image Processing</i> , 2012 , 2157-2160	1.6	
10	Quality-fluctuation-constrained rate allocation for MCTF-based video coding 2006 , 6077, 504		
9	An error spreading scheme for video streaming over the Internet. <i>IEEE Transactions on Consumer Electronics</i> , 2003 , 49, 990-994	4.8	
8	Graph Neural Networks With Lifting-Based Adaptive Graph Wavelets. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2022 , 8, 63-77	2.8	
7	A Cross-Resolution Leaky Prediction Scheme for In-Band Wavelet Video Coding with Spatial Scalability. <i>Lecture Notes in Computer Science</i> , 2005 , 156-167	0.9	
6	A Study on Motion Prediction and Coding for In-Band Motion Compensated Temporal Filtering. <i>Lecture Notes in Computer Science</i> , 2005 , 983-988	0.9	
5	A Novel Coarse-to-Fine Adaptation Segmentation Approach for Cellular Image Analysis. <i>Lecture Notes in Computer Science</i> , 2006 , 762-771	0.9	
4	Pedestrian Detection with a Directly-Cascaded Deconvolution-Convolution Structure. <i>Lecture Notes in Computer Science</i> , 2018 , 370-380	0.9	
3	Deep Face Recognition Using Adaptively-Weighted Verification Loss Function. <i>Communications in Computer and Information Science</i> , 2018 , 182-192	0.3	
2	Neural Image Caption Generation with Global Feature Based Attention Scheme. <i>Lecture Notes in Computer Science</i> , 2017 , 51-61	0.9	

- 1 Imitating What You Need: An Adaptive Framework for Detector Distillation. *Lecture Notes in Computer Science*, **2021**, 89-101 0.9