

Hongkai Xiong

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9360772/hongkai-xiong-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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	
161	Lossless Compression for Video Streams with Frequency Prediction and Macro Block Merging 2021 ,		1
160	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
159	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
158	Group Reidentification with Multigrained Matching and Integration. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1478-1492	10.2	10
157	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
156	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
155	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
154	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
153	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
152	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
151	iPool--Information-Based Pooling in Hierarchical Graph Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	1
150	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
149	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
148	Imitating What You Need: An Adaptive Framework for Detector Distillation. <i>Lecture Notes in Computer Science</i> , 2021 , 89-101	0.9	
147	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 2749-2763	6.6	14
146	Key-Point Sequence Lossless Compression for Intelligent Video Analysis. <i>IEEE MultiMedia</i> , 2020 , 27, 12-22.1		3

145	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
144	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
143	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
142	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 1874-1888	6.6	6
141	FedMax: Enabling a Highly-Efficient Federated Learning Framework 2020 ,		6
140	Attribute Mix: Semantic Data Augmentation for Fine Grained Recognition 2020 ,		5
139	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
138	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
137	REV-AE: A Learned Frame Set for Image Reconstruction 2020 ,		1
136	Structure-Aware Graph Construction For Point Cloud Segmentation With Graph Convolutional Networks 2020 ,		1
135	Rotation Equivariant Graph Convolutional Network for Spherical Image Classification 2020 ,		6
134	Adaptive lossless compression of skeleton sequences. <i>Signal Processing: Image Communication</i> , 2020 , 80, 115659	2.8	0
133	A Server-Side Optimized Hybrid Multicast-Unicast Strategy for Multi-User Adaptive 360-Degree Video Streaming 2019 ,		4
132	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
131	Lossy Image Compression with Filter Bank Based Convolutional Networks 2019 ,		1
130	Single and Sequential Viewports Prediction for 360-Degree Video Streaming 2019 ,		6
129	Deep Reinforcement Learning-based Rate Adaptation for Adaptive 360-Degree Video Streaming 2019 ,		13
128	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

127	Robust Subspace Clustering with Compressed Data. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	27
126	Optimization-based Decentralized Coded Caching for Files and Caches with Arbitrary Sizes 2019 ,		2
125	PML-LocNet: Improving Object Localization with Prior-induced Multi-view Learning Network. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	1
124	DNQ: Dynamic Network Quantization 2019 ,		2
123	Integral Object Mining via Online Attention Accumulation 2019 ,		48
122	Multiuser Video Streaming Rate Adaptation: A Physical Layer Resource-Aware Deep Reinforcement Learning Approach 2019 ,		2
121	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
120	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
119	. <i>IEEE Transactions on Multimedia</i> , 2018 , 20, 361-378	6.6	21
118	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
117	. <i>IEEE Transactions on Multimedia</i> , 2018 , 20, 965-984	6.6	80
116	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
115	Pedestrian Detection with a Directly-Cascaded Deconvolution-Convolution Structure. <i>Lecture Notes in Computer Science</i> , 2018 , 370-380	0.9	
114	Deep Face Recognition Using Adaptively-Weighted Verification Loss Function. <i>Communications in Computer and Information Science</i> , 2018 , 182-192	0.3	
113	Privacy Preserving Federated Big Data Analysis. <i>Studies in Big Data</i> , 2018 , 49-82	0.9	6
112	Structurally Constrained Correlation Transfer for Zero-shot Learning 2018 ,		1
111	2018 ,		1
110	Multi-scale Spatiotemporal Information Fusion Network for Video Action Recognition 2018 ,		4

109	Server-Side Rate Adaptation for Multi-User 360-Degree Video Streaming 2018 ,		5
108	Zigzag Learning for Weakly Supervised Object Detection 2018 ,		48
107	Group Re-Identification 2018 ,		12
106	Structured Semantic Representation for Visual Question Answering 2018 ,		2
105	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
104	Endobronchial Ultrasound Elastography for Evaluation of Intrathoracic Lymph Nodes: A Pilot Study. <i>Respiration</i> , 2017 , 93, 327-338	3.7	28
103	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
102	Nonconvex Optimization with Alternating Direction Method of Multipliers for Tensor-Based Compressed Sensing with Group Sparsity 2017 ,		1
101	Complementary Contextual Models with FM-Index for DNA Compression 2017 ,		2
100	. <i>IEEE Transactions on Multimedia</i> , 2017 , 1-1	6.6	16
99	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
98	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
97	Multiple Semantic Matching on Augmented $\mathbb{N}\mathbb{N}$ -Partite Graph for Object Co-Segmentation. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 5825-5839	8.7	19
96	Optimal decentralized coded caching for heterogeneous files 2017 ,		9
95	Multiscale dictionary learning for hierarchical sparse representation 2017 ,		1
94	Reinforcement learning-based opportunistic routing for live video streaming over multi-hop wireless networks 2017 ,		5
93	Neural Image Caption Generation with Global Feature Based Attention Scheme. <i>Lecture Notes in Computer Science</i> , 2017 , 51-61	0.9	
92	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

91	A hybrid wavelet convolution network with sparse-coding for image super-resolution 2016 ,		8
90	Compressed Video Coding with Multi-Kernel Gaussian Process Regression 2016 ,		2
89	Complexity constrained representation selection for dynamic adaptive streaming 2016 ,		1
88	Distributed wireless video caching placement for dynamic adaptive streaming 2016 ,		3
87	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
86	VERTical Grid lOgistic regression (VERTIGO). <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2016 , 23, 570-9	8.6	30
85	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
84	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
83	A cost minimization with light field in scene depth MAP estimation 2016 ,		1
82	Picking Deep Filter Responses for Fine-Grained Image Recognition 2016 ,		166
81	Compressive Tensor Sampling with Structured Sparsity 2016 ,		2
80	. <i>IEEE Transactions on Multimedia</i> , 2016 , 18, 507-520	6.6	5
79	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
78	Subspace Learning with Structured Sparsity for Compressive Video Sampling 2015 ,		1
77	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015 , 25, 1665-1681	6.4	8
76	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
75	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
74	Structure-Based Learning in Sampling, Representation and Analysis for Multimedia Big Data 2015 ,		1

73	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
72	Interactive multiview video scheduling through bargaining 2015 ,		1
71	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
70	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
69	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
68	Multiscale Edge Coding and Adaptive Lifting for Depth Maps Coding in 3-D Video 2014 ,		1
67	Regional context model and dynamic Huffman binarization for adaptive entropy coding of multimedia 2014 ,		2
66	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
65	Dynamic rate allocation and opportunistic routing for scalable video multirate multicast over time-varying wireless networks 2014 ,		2
64	Union of Data-Driven Subspaces via Subspace Clustering for Compressive Video Sampling 2014 ,		3
63	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
62	. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5768-5780	9.6	5
61	Gaussian Process Regression Based Prediction for Lossless Image Coding 2014 ,		5
60	Figure/ground video segmentation using greedy transductive cosegmentation 2014 ,		1
59	Spatio-temporal coherence for 3-D view synthesis with curve-based disparity warping 2014 ,		2
58	Fused one-vs-all mid-level features for fine-grained visual categorization 2014 ,		17
57	Delay-power-rate-distortion model for H.264 video coding 2013 ,		1
56	A scalable depth coding with arc breakpoints based synthesis in 3-D video 2013 ,		1

55	. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 1827-1837	6.8	82
54	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
53	An Adaptive Difference Distribution-based Coding with Hierarchical Tree Structure for DNA Sequence Compression 2013 , 2013, 371-380		2
52	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
51	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
50	Illumination compensation via low rank matrix completion for multiview video coding 2013 ,		1
49	DNA-COMPACT: DNA COMPRESSION based on a pattern-aware contextual modeling technique. <i>PLoS ONE</i> , 2013 , 8, e80377	3.7	19
48	3D tubular structure extraction using kernel-based superellipsoid model with Gaussian process regression 2012 ,		3
47	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
46	SEMI-SUPERVISED OBJECT RECOGNITION USING STRUCTURE KERNEL. <i>Proceedings International Conference on Image Processing</i> , 2012 , 2157-2160	1.6	
45	Privacy-Preserving Biometric System for Secure Fingerprint Authentication 2012 ,		1
44	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
43	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
42	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
41	A structured learning-based graph matching for dynamic multiple object tracking 2011 ,		2
40	Conditional random field based side-information fusion for distributed multi-view video coding 2011 ,		1
39	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
38	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

37	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
36	Joint Coding/Routing 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
35	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
34	Correlated Data Gathering on Dynamic Network Coding Policy and Opportunistic Routing in Wireless Sensor Network 2011 ,		3
33	Global Correlated Data Gathering in Wireless Sensor Networks with Compressive Sensing and Randomized Gossiping 2011 ,		1
32	Super-resolution reconstruction with prior manifold on primitive patches for video compression 2011 ,		1
31	A generic video coding framework based on anisotropic diffusion and spatio-temporal completion 2010 ,		3
30	Image super-resolution with sparse representation prior on primitive patches 2010 ,		1
29	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
28	Joint Coding/Routing Optimization for Correlated Sources in Wireless Visual Sensor Networks 2009 ,		7
27	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
26	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
25	On Non-sequential Context Modeling with Application to Executable Data Compression. <i>Proceedings of the Data Compression Conference</i> , 2008 ,		3
24	Side information generation with constrained relaxation for distributed multi-view video coding 2008 ,		1
23	2-D dual multiresolution decomposition through NUDFB and its application 2008 ,		1
22	Monitoring and Troubleshooting in Operational IP-TV System. <i>IEEE Transactions on Broadcasting</i> , 2007 , 53, 711-718	4.7	5
21	Computational Graph Model for 3D Cells Tracking in Zebra Fish Datasets. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
20	A 3D Self-Adjust Region Growing Method for Axon Extraction 2007 ,		1

19	Incorporating Primal Sketch Based Learning Into Low Bit-Rate Image Compression 2007 ,		5
18	Graph Theory Application in Cell Nucleus Segmentation, Tracking and Identification 2007 ,		8
17	A New Deblocking Algorithm Based on Adjusted Contourlet Transform 2006 ,		3
16	A Context-Based Error Detection Strategy into H.264/AVC CABAC 2006 ,		2
15	Quality-fluctuation-constrained rate allocation for MCTF-based video coding 2006 , 6077, 504		
14	A Novel Coarse-to-Fine Adaptation Segmentation Approach for Cellular Image Analysis. <i>Lecture Notes in Computer Science</i> , 2006 , 762-771	0.9	
13	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
12	An Improved Update Operator for H.264 Scalable Extension 2005 ,		1
11	Mode-based temporal filtering for in-band wavelet video coding with spatial scalability 2005 , 5960, 355		0
10	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
9	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
8	Contourlet Image Coding Based on Adjusted SPIHT. <i>Lecture Notes in Computer Science</i> , 2005 , 629-640	0.9	1
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	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
4	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
3	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
2	An error spreading scheme for video streaming over the Internet. <i>IEEE Transactions on Consumer Electronics</i> , 2003 , 49, 990-994	4.8	

1 Adaptive predict based on fading compensation for lifting-based motion compensated temporal filtering 2