## Jiro Katto

## List of Publications by Year in descending order

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191	1,671 citations	933447	752698 20 g-index
papers	citations	h-index	g-maex
193 all docs	193 docs citations	193 times ranked	823 citing authors

#	Article	IF	CITATIONS
1	QA-Filter: A QP-Adaptive Convolutional Neural Network Filter for Video Coding. IEEE Transactions on Image Processing, 2022, 31, 3032-3045.	9.8	9
2	An Efficient Low-Complexity Convolutional Neural Network Filter. IEEE MultiMedia, 2022, , 1-1.	1.7	0
3	Forward and Backward Warping for Optical Flow-Based Frame Interpolation. , 2022, , .		O
4	Research and examination on implementation of super-resolution models using deep learning with INT8 precision. , 2022, , .		2
5	loT-centric Service Function ChainingOrchestration and its Performance Validation. , 2021, , .		2
6	A containerized task clustering for scheduling workflows to utilize processors and containers on clouds. Journal of Supercomputing, 2021, 77, 12879-12923.	3.6	1
7	Approximated Reconfigurable Transform Architecture for VVC. , 2021, , .		7
8	Accelerating Convolutional Neural Network Inference Based on a Reconfigurable Sliced Systolic Array., 2021,,.		4
9	FRAB: A Flexible Relaxation Method for Fair, Stable, Efficient Multi-user DASH Video Streaming., 2021,,.		4
10	High-QoE DASH Live Streaming Using Reinforcement Learning. , 2021, , .		3
11	ViT-GAN: Using Vision Transformer as Discriminator with Adaptive Data Augmentation., 2021,,.		4
12	Deep Pedestrian Density Estimation For Smart City Monitoring., 2021,,.		2
13	Mitigation of Cold Start Problem in Experience-Based Adaptive Streaming over NDN., 2021,,.		O
14	Adaptive Video Transmission Strategy Based on Ising Machine. , 2021, , .		0
15	A Hardware Architecture for Adaptive Loop Filter in WC Decoder. , 2021, , .		6
16	Learning in Compressed Domain for Faster Machine Vision Tasks. , 2021, , .		6
17	A Pipelined 2D Transform Architecture Supporting Mixed Block Sizes for the VVC Standard. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3289-3295.	8.3	26
18	Energy Compaction-Based Image Compression Using Convolutional AutoEncoder. IEEE Transactions on Multimedia, 2020, 22, 860-873.	7.2	47

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19	A Learning-Based Low Complexity in-Loop Filter for Video Coding. , 2020, , .		5
20	Low Bitrate Image Compression with Discretized Gaussian Mixture Likelihoods. , 2020, , .		1
21	An Image Compression Framework with Learning-based Filter. , 2020, , .		4
22	Scalable Learned Image Compression With A Recurrent Neural Networks-Based Hyperprior., 2020,,.		8
23	End-To-End Learned Image Compression With Fixed Point Weight Quantization. , 2020, , .		5
24	Learned Image Compression With Discretized Gaussian Mixture Likelihoods and Attention Modules. , 2020, , .		389
25	Learned Lossless Image Compression with A Hyperprior and Discretized Gaussian Mixture Likelihoods. , 2020, , .		5
26	A Fast QTMT Partition Decision Strategy for VVC Intra Prediction. IEEE Access, 2020, 8, 107900-107911.	4.2	80
27	Accuracy Evaluations of Video Anomaly Detection Using Human Pose Estimation. , 2020, , .		2
28	Video Alignment Using Bi-Directional Attention Flow in a Multi-Stage Learning Model. IEEE Access, 2020, 8, 18097-18109.	4.2	2
29	Enhanced Intra Prediction for Video Coding by Using Multiple Neural Networks. IEEE Transactions on Multimedia, 2020, 22, 2764-2779.	7.2	14
30	CNN Based Optimal Intra Prediction Mode Estimation in Video Coding. , 2020, , .		2
31	Fully Neural Network Mode Based Intra Prediction of Variable Block Size. , 2020, , .		3
32	HEVC Video Coding with Deep Learning Based Frame Interpolation. , 2020, , .		1
33	Accuracy Evaluation of Corridor Width Estimation using RGB-D Camera. , 2020, , .		0
34	Road Crack Detection Using U-Net. , 2020, , .		0
35	Reinforcement Learning Based Adaptive Video Streaming on Named Data Networking. , 2020, , .		1
36	Curb Height Estimation using 2DLiDAR mounted on e-Bike. , 2020, , .		0

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37	Convolutional Neural Network based Inverse Tone Mapping for High Dynamic Range Display using LUCORE., 2019,,.		3
38	Gamut-Extension Methods Considering Color Information Restoration. IEEE Access, 2019, 7, 80146-80158.	4.2	3
39	IoT Device Virtualization for Efficient Resource Utilization in Smart City IoT Platform., 2019,,.		18
40	Evaluation of Throughput Prediction for Adaptive Bitrate Control Using Trace-Based Emulation. IEEE Access, 2019, 7, 51346-51356.	4.2	13
41	TCP throughput characteristics over 5G millimeterwave network in indoor train station. , 2019, , .		10
42	Performance Evaluations of IoT Device Virtualization for Efficient Resource Utilization., 2019,,.		5
43	A Function Clustering Algorithm for Resource Utilization in Service Function Chaining. , 2019, , .		1
44	A Gamut-Extension Method Considering Color Information Restoration using Convolutional Neural Networks. , 2019, , .		0
45	Improvement of H.265/HEVC Encoding for 8K UHDTV by GOP Size and Prediction Mode Selection. , 2019, , .		2
46	Accuracy evaluations of contact-free heart rate measurement mehods using 4K facial images. , 2019, , .		0
47	Methods for Adaptive Video Streaming and Picture Quality Assessment to Improve QoS/QoE Performances. IEICE Transactions on Communications, 2019, E102.B, 1240-1247.	0.7	3
48	Performance Evaluations of Viewport Movement Prediction and Rate Adaptation for Tile-Based 360-Degree Video Delivery. , 2019, , .		0
49	Performance Evaluations of Tile-based 360-degree DASH Streaming with Clustering-based Viewport Prediction., 2019,,.		O
50	Dual Learning-based Video Coding with Inception Dense Blocks. , 2019, , .		5
51	Proxy-Assisted Rate Adaptation for 4K Video Streaming on Named Data Networking. , 2019, , .		3
52	Fast QTMT Partition Decision Algorithm in VVC Intra Coding based on Variance and Gradient., 2019,,.		42
53	Performance Evaluations of IEEE 802.11ad and Human Pose Detection towards Intelligent Video Surveillance System. , 2019, , .		1
54	Learning Image and Video Compression Through Spatial-Temporal Energy Compaction. , 2019, , .		53

#	Article	IF	CITATIONS
55	Road Infrastructure Monitoring System using E-Bikes and Its Extensions for Smart Community. , 2019, , .		8
56	Perceptual Quality Study on Deep Learning Based Image Compression. , 2019, , .		16
57	A Highly Accurate Transportation Mode Recognition Using Mobile Communication Quality. IEICE Transactions on Communications, 2019, E102.B, 741-750.	0.7	1
58	Edge-centric field monitoring system for energy-efficient and network-friendly field sensing. , 2018, , .		7
59	[Invited Paper] Overview of Multimedia Mobile Edge Computing. ITE Transactions on Media Technology and Applications, 2018, 6, 46-52.	0.5	9
60	Improvement of H.265/HEVC encoding for 8K UHDTV by CU size expansion and inter/intra prediction mode selection. , 2018, , .		0
61	A study on color-space conversion method considering color information restoration. , 2018, , .		4
62	Performance evaluations of multimedia service function chaining in edge clouds. , 2018, , .		10
63	TRUST: A TCP Throughput Prediction Method in Mobile Networks. , 2018, , .		25
64	Throughput Prediction Using Recurrent Neural Network Model. , 2018, , .		8
65	Adaptive Bit-rate Video Streaming on Named Data Networking with Active Throughput Estimation. , 2018, , .		1
66	Light-Weight Video Coding Based on Perceptual Video Quality for Live Streaming. , 2018, , .		0
67	Deep Inverse Tone Mapping Optimized for High Dynamic Range Display. , 2018, , .		1
68	Adaptive Video Streaming on Named Data Networking with IoT-Assisted Content Delivery. , 2018, , .		2
69	A Fast No-Reference Screen Content Image Quality Prediction Using Convolutional Neural Networks. , 2018, , .		6
70	Machine Learning Based Transportation Modes Recognition Using Mobile Communication Quality. , 2018, , .		4
71	A Fully-Blind and Fast Image Quality Predictor with Convolutional Neural Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1557-1566.	0.3	3
72	Proactive Interest Adaptation and Content Caching for Adaptive Bit-Rate Video Streaming Over NDN. , 2018, , .		6

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73	Edge-centric Video Surveillance System Based on Event-driven Rate Adaptation for 24-hour Monitoring. , $2018,  ,  .$		4
74	Deep Convolutional AutoEncoder-based Lossy Image Compression. , 2018, , .		110
75	Perceptual Quality Driven Adaptive Video Coding Using JND Estimation. , 2018, , .		13
76	HOAH: A Hybrid TCP Throughput Prediction with Autoregressive Model and Hidden Markov Model for Mobile Networks. IEICE Transactions on Communications, 2018, E101.B, 1612-1624.	0.7	12
77	Performance evaluations of software-defined acoustic MIMO-OFDM transmission., 2018,,.		3
78	Intelligent Video Surveillance System Based on Event Detection and Rate Adaptation by Using Multiple Sensors. IEICE Transactions on Communications, 2018, E101.B, 688-697.	0.7	2
79	A Transmission Control Protocol for Long Distance High-Speed Wireless Communications. IEICE Transactions on Communications, 2018, E101.B, 1045-1054.	0.7	10
80	Energy-Efficient Mobile Video Delivery Utilizing Moving Route Navigation and Video Playout Buffer Control. IEICE Transactions on Communications, 2018, E101.B, 1635-1644.	0.7	2
81	Image quality evaluations of image enhancement under various encoding rates for video surveillance system., 2017,,.		5
82	A History-Based TCP Throughput Prediction Incorporating Communication Quality Features by Support Vector Regression for Mobile Network. , 2017, , .		8
83	A Pre-Saliency Map Based Blind Image Quality Assessment via Convolutional Neural Networks., 2017,,.		17
84	QoS and QoE evaluations of 2K and 4K video distribution using MPEG-DASH. , 2017, , .		1
85	Green video delivery system using moving route navigation and playout buffer control. , 2017, , .		2
86	Accuracy evaluations of human moving pattern using communication quality based on machine learning. , $2017,  ,  .$		3
87	QoS and QoE Evaluations of 2K and 4K DASH Contents Distributions. , 2017, , .		0
88	Proactive Content Caching for Mobile Video Utilizing Transportation Systems and Evaluation Through Field Experiments. IEEE Journal on Selected Areas in Communications, 2016, 34, 2102-2114.	14.0	36
89	Content Oriented Surveillance System Based on Information-Centric Network. , 2016, , .		12
90	Accuracy improvement in human detection using HOG features on train-mounted camera., 2016,,.		7

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91	Evaluation and analysis of system latency of edge computing for multimedia data processing. , 2016, , .		6
92	History-based throughput prediction with Hidden Markov Model in mobile networks. , 2016, , .		7
93	Enhancement of HCCA utilizing capture effect to support high QoS and DCF friendliness. , 2016, , .		4
94	Improvement of H.265/HEVC encoding for 8K UHDTV by detecting motion complexity., 2016,,.		1
95	Energy Consumption Evaluation of ICN Toward Power-Saving Video Delivery. , 2015, , .		2
96	Energy-Efficient Video Streaming over Named Data Networking Using Interest Aggregation and Playout Buffer Control. , 2015, , .		8
97	QoS improvement of mobile 4K video by using radio quality map. , 2015, , .		4
98	An Adaptive H.265/HEVC Encoding Control for 8K UHDTV Movies Based on Motion Complexity Estimation. , 2015, , .		0
99	Content Offloading System on CCN Architecture Utilizing Transportation Systems. , 2015, , .		0
100	Performance Evaluation of Proactive Content Caching for Mobile Video through 50-User Field Experiment. , $2015$ , , .		3
101	Outbound face selection considering response time and buffer usage for CCN adaptive video streaming. , $2015,  ,  .$		4
102	Evaluations of 4K/2K video streaming using MPEG-DASH with buffering behavior analysis. , 2015, , .		0
103	Improvement of 8K UHDTV picture quality for H.265/HEVC by global zoom estimation. , 2015, , .		3
104	A highly-reliable buffer strategy based on long-term throughput prediction for mobile video streaming. , 2015, , .		8
105	Transportation means identification of content delivery system for consumer electronic devices., 2015,,.		0
106	Development of software-defined acoustic communication platform and its evaluations. , 2015, , .		1
107	Implementation evaluation of proactive content caching using DASH-NDN-JS., 2015,,.		6
108	[Paper] A Study on Motion Estimation using Block Matching for Spatially Periodic Patterns. ITE Transactions on Media Technology and Applications, 2015, 3, 58-66.	0.5	0

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109	[Paper] Performance Evaluations of Comfort Route Navigation Providing High-QoS Communication for Mobile Users. ITE Transactions on Media Technology and Applications, 2014, 2, 327-335.	0.5	5
110	Improvement of height estimation of low birth weight infants, newborns and infants image processing system using Kinect. , $2014, \ldots$		0
111	Comfort route navigation providing high communication Quality and Energy Saving for mobile devices. , 2014, , .		2
112	Performance analysis and validation of high QoS route navigation for mobile users. , 2014, , .		0
113	Traffic sign recognition by distorted template matching. , 2014, , .		0
114	Proactive content caching utilizing transportation systems and its evaluation by field experiment. , 2014, , .		14
115	Improvement of 2-D picture quality for H.265/HEVC by occluded region detection using 3-D depth map. , 2014, , .		0
116	Improvement of throughput prediction accuracy for video streaming in mobile environment. , 2014, , .		3
117	Effects of Audio Compression on Chord Recognition. Lecture Notes in Computer Science, 2014, , 345-352.	1.3	2
118	[Foreword] Welcome to the Special Section on Multimedia Transmission System and Services. ITE Transactions on Media Technology and Applications, 2014, 2, 298-298.	0.5	0
119	[Paper] Selecting Higher Wireless Connection Capacity Routes with/without Predicting Congestion in Access Networks. ITE Transactions on Media Technology and Applications, 2014, 2, 345-352.	0.5	0
120	Image Super-resolution Method Using Registration of Multi-scale Wavelet Components with Consideration of Digital Cinema Noise. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2014, 68, J92-J98.	0.1	2
121	[Paper] Blind PSNR Estimation of Compressed Video Sequences Supported by Machine Learning. ITE Transactions on Media Technology and Applications, 2014, 2, 353-361.	0.5	1
122	Video streaming over content centric networking: Experimental studies on PlanetLab., 2013,,.		11
123	BRAEVE: Stable and adaptive BSM rate control over IEEE802.11p vehicular networks. , 2013, , .		6
124	Super-resolution from digital cinema to ultra high definition television using image registration of wavelet multi-scale components. , 2013, , .		6
125	Image Super-resolution Using Registration of Wavelet Multi-scale Components with Affine Transformation. , 2013, , .		1
126	A study on gait recognition using LPC cepstrum for mobile terminal. , 2013, , .		1

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127	An adaptive TCP congestion control having RTT-fairness and inter-protocol friendliness. , 2013, , .		O
128	Quality of service of mobile users for longcut routes with congested access points., 2013,,.		4
129	Quality assessment of compressed video sequences having blocking artifacts by cepstrum analysis. , 2013, , .		2
130	RoCNet: Spatial mobile data offload with user-behavior prediction through delay tolerant networks. , 2013, , .		13
131	TCP differentiation using version identification and EDCA for low-delay multimedia streaming. , 2013, , .		1
132	[Paper] Service Differentiation Based Incentive Mechanism for P2P Streaming in Hybrid Overlay Network. ITE Transactions on Media Technology and Applications, 2013, 1, 167-177.	0.5	1
133	[Paper] A Contribution-Aware Multiple Parent Hierarchical Overlay Network for P2P Media Streaming. ITE Transactions on Media Technology and Applications, 2013, 1, 70-80.	0.5	0
134	Subjective Quality Metric for 3D Video Services. IEICE Transactions on Communications, 2013, E96.B, 410-418.	0.7	2
135	A bit-depth scalable video coding approach considering spatial gradation restoration. , 2012, , .		2
136	A New TCP Congestion Control Supporting RTT-Fairness. IEICE Transactions on Information and Systems, 2012, E95-D, 523-531.	0.7	5
137	Providing service differentiation for video streaming in hybrid P2P overlay network. , 2012, , .		1
138	QoS characteristics on a longcut route with various radio resource models. , 2012, , .		5
139	Chord recognition using Doubly Nested Circle of Fifths. , 2012, , .		2
140	Wavelet domain image super-resolution from digital cinema to ultrahigh definition television by dividing noise component. , 2012, , .		2
141	Music Part Segmentation in Music TV Programs Based on Chroma Vector Analysis. , 2012, , .		0
142	Improving the performance of SIFT using Bilateral Filter and its application to generic object recognition. , $2012$ , , .		5
143	Spatial uplink mobile data offloading leveraging store-carry-forward paradigm. , 2012, , .		1
144	ToMo: A Two-Layer Mesh/Tree Structure for Live Streaming in P2P Overlay Network. , 2010, , .		26

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145	A contribution-aware multiple parent overlay network for P2P media streaming. , 2010, , .		2
146	Hybrid Application Layer Multicast with Hierarchically Distributed Nodes. , 2010, , .		0
147	A Novel Algorithm to Control Contents Selectively for Vehicular Communication Networks. , 2010, , .		1
148	Overlay tree construction to distribute layered streaming by application layer multicast. IEEE Transactions on Consumer Electronics, 2010, 56, 1957-1962.	3.6	8
149	A hybrid TCP-friendly rate control for multimedia streaming. , 2010, , .		2
150	Implementation experiments to evaluate a new TCP congestion control supporting loss-fairness. , 2010, , .		0
151	Robust Mesh-Based Data Delivery over Multiple Tree-Shaped Routes in P2P Overlay Network. , 2009, , .		4
152	Priority Based Selection to Improve Contents Consistency for Mobile Overlay Network., 2009,,.		1
153	Efficient Construction in ALM with Assignment of Layered Degree and ALM-Bi-Cast. , 2009, , .		1
154	Improvement of RTT-fairness in Hybrid TCP congestion control. , 2009, , .		2
155	A Scalable Monitoring System for Distributed Environments. , 2009, , .		0
156	Feature Analysis and Normalization Approach for Robust Content-Based Music Retrieval to Encoded Audio with Different Bit Rates. Lecture Notes in Computer Science, 2009, , 298-309.	1.3	5
157	Simple Model Analysis and Performance Tuning of Hybrid TCP Congestion Control. , 2008, , .		4
158	Consistency and update in mobile overlay networks. , 2008, , .		0
159	Denoising intra-coded moving pictures using motion estimation and pixel shift. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
160	Support Strong Consistency for Mobile Dynamic Contents Delivery Network., 2007,,.		0
161	Efficient Consistency Control for Mobile Dynamic Contents Delivery Network., 2007,,.		0
162	Scalable Maintenance for Strong Web Consistency in Dynamic Content Delivery Overlays. , 2007, , .		8

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163	Strategies towards robust and stable application layer multicast., 2007,,.		5
164	Selective Update Approach to Maintain Strong Web Consistency in Dynamic Content Delivery. IEICE Transactions on Communications, 2007, E90-B, 2729-2737.	0.7	2
165	Experimental evaluation of an on-demand multipath routing protocol for video transmission in mobile ad hoc networks. Journal of Zhejiang University: Science A, 2006, 7, 145-150.	2.4	3
166	Minimizing Video Switching/Composition Delay by Controlling Video Sync Phases. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2006, 60, 1789-1795.	0.1	0
167	IP Telephony. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2006, 60, 163-164.	0.1	0
168	Internet Broadcasting. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2006, 60, 47-49.	0.1	1
169	Proactive Route Maintenance for Tree-Based Application Layer Multicast and Its Implementations. IEICE Transactions on Information and Systems, 2006, E89-D, 2856-2866.	0.7	2
170	Tree-based application layer multicast using proactive route maintenance and its implementation. , 2005, , .		15
171	A new approach for the construction of ALM trees using layered video coding. , 2005, , .		18
172	Supporting Consistency Management in Dynamic Content Distribution Overlays., 2005,,.		0
173	Reno Friendly TCP Westwood based on Router Buffer Estimation. , 2005, , .		7
174	An integrated Retrieval and Pre-fetching algorithms for Segmented Streaming in Mobile Peer-to-Peer Networks. , 2005, , .		3
175	A New Approach for the Construction of ALM Trees using Layered Coding. , 2005, , .		3
176	Scalable Consistency Management in Dynamic Content Distribution Overlays., 2005,,.		0
177	Proactive Route Maintenance and Overhead Reduction for Application Layer Multicast., 2005,,.		8
178	A method of gender classification by integrating facial, hairstyle, and clothing images. , 2004, , .		17
179	Dynamic Walks for Searching Streaming Media in Peer-to-Peer Networks. Lecture Notes in Computer Science, 2004, , 147-156.	1.3	0
180	Application Layer Multicast with Proactive Route Maintenance over Redundant Overlay Trees. Lecture Notes in Computer Science, 2004, , 306-313.	1.3	5

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181	Replication algorithms to retrieve scalable streaming media over Content Delivery Networks. , 2003, , .		3
182	System architecture for synthetic/natural hybrid coding and some experiments. IEEE Transactions on Circuits and Systems for Video Technology, 1999, 9, 325-335.	8.3	1
183	Structure recovery with multiple cameras from scaled orthographic and perspective views. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1999, 21, 628-633.	13.9	7
184	MPEG New Aspect Deployment. 3. New Techniques in the MPEG-4 Visual Standard. 3-1. MPEG-4 Visual Standard Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1999, 53, 485-491.	0.1	1
185	Improved scanning methods for wavelet coefficients of video signals. Signal Processing: Image Communication, 1996, 8, 365-378.	3.2	2
186	A wavelet codec with overlapped motion compensation for very low bit-rate environment. IEEE Transactions on Circuits and Systems for Video Technology, 1994, 4, 328-338, 365.	8.3	33
187	Variable bit-rate coding based on human visual system. Signal Processing: Image Communication, 1991, 3, 313-320.	3.2	1
188	Performance evaluation of subband coding and optimization of its filter coefficients. Journal of Visual Communication and Image Representation, 1991, 2, 303-313.	2.8	87
189	<title>Performance evaluation of subband coding and optimization of its filter coefficients</title> ., 1991,,.		52
190	Cell loss protection using hierarchical coding in video packet communication. Electronics and Communications in Japan, 1990, 73, 52-62.	0.1	4
191	A new structure of parallel filter bank allowing perfect reconstruction. , 0, , .		0