

# Kazunori Hayashi

## List of Publications by Year in descending order

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85  
papers

1,049  
citations

623734

14  
h-index

454955

30  
g-index

85  
all docs

85  
docs citations

85  
times ranked

840  
citing authors

#	ARTICLE	IF	CITATIONS
1	A User's Guide to Compressed Sensing for Communications Systems. IEICE Transactions on Communications, 2013, E96.B, 685-712.	0.7	185
2	Mayer's Vietoris sequences and coverage problems in sensor networks. Japan Journal of Industrial and Applied Mathematics, 2011, 28, 237-250.	0.9	101
3	Throughput-Guaranteed Resource-Allocation Algorithms for Relay-Aided Cellular OFDMA System. IEEE Transactions on Vehicular Technology, 2009, 58, 1951-1964.	6.3	80
4	Amplify-and-Forward Cooperative Diversity Schemes for Multi-Carrier Systems. IEEE Transactions on Wireless Communications, 2008, 7, 1845-1850.	9.2	54
5	Analysis and Compensation of Transmitter IQ Imbalances in OFDMA and SC-FDMA Systems. IEEE Transactions on Signal Processing, 2009, 57, 3119-3129.	5.3	53
6	Trainable Projected Gradient Detector for Massive Overloaded MIMO Channels: Data-Driven Tuning Approach. IEEE Access, 2019, 7, 93326-93338.	4.2	44
7	Proportional fair scheduling with superposition coding in a cellular cooperative relay system. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 525-537.	2.5	42
8	Convex Optimization-Based Signal Detection for Massive Overloaded MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 7080-7091.	9.2	36
9	Link Quality Classifier with Compressed Sensing Based on $\ell_1$ - $\ell_2$ Optimization. IEEE Communications Letters, 2011, 15, 1117-1119.	4.1	24
10	Deep Learning-Aided Projected Gradient Detector for Massive Overloaded MIMO Channels. , 2019, , .		21
11	Lattice Reduction-Aided Detection for Overloaded MIMO Using Slab Decoding. IEICE Transactions on Communications, 2016, E99.B, 1697-1705.	0.7	20
12	Reconstruction of Complex Discrete-Valued Vector via Convex Optimization With Sparse Regularizers. IEEE Access, 2018, 6, 66499-66512.	4.2	16
13	Fairness-Aware Non-Orthogonal Multi-User Access With Discrete Hierarchical Modulation for 5G Cellular Relay Networks. IEEE Access, 2015, 3, 2922-2938.	4.2	15
14	Distributed Resource Allocation With Local CSI Overhearing and Scheduling Prediction for OFDMA Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 1186-1199.	6.3	15
15	Long-Haul WDM/SDM Transmission Over Coupled 4-Core Fiber With Coupled 4-Core EDFA and Its Mode Dependent Loss Characteristics Estimation. Journal of Lightwave Technology, 2022, 40, 1664-1671.	4.6	15
16	Compressive Sampling for Remote Control Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 713-722.	0.3	14
17	Probabilistic Dynamic Framed Slotted ALOHA for RFID Tag Identification. Wireless Personal Communications, 2013, 71, 2947-2963.	2.7	14
18	Massive overloaded MIMO signal detection via convex optimization with proximal splitting. , 2016, , .		14

#	ARTICLE	IF	CITATIONS
19	Symbol Detection for Faster-Than-Nyquist Signaling by Sum-of-Absolute-Values Optimization. IEEE Signal Processing Letters, 2016, 23, 1853-1857.	3.6	14
20	Multiuser Detection Based on MAP Estimation With Sum-of-Absolute-Values Relaxation. IEEE Transactions on Signal Processing, 2017, 65, 5621-5634.	5.3	14
21	Evaluation of full-field energy dispersive X-ray fluorescence imaging apparatus and super resolution analysis with compressed sensing technique. X-Ray Spectrometry, 2019, 48, 644-650.	1.4	14
22	Adaptive equalization of transmitter and receiver IQ skew by multi-layer linear and widely linear filters with deep unfolding. Optics Express, 2020, 28, 23478.	3.4	12
23	Compressive sampling for networked feedback control. , 2012, , .		11
24	Downlink power allocation with CSI overhearing in an OFDMA macrocell/femtocell coexisting system. , 2012, , .		11
25	New Paradigms in Wireless Communication Systems. Wireless Personal Communications, 2006, 37, 233-241.	2.7	10
26	Discreteness-Aware Approximate Message Passing for Discrete-Valued Vector Reconstruction. IEEE Transactions on Signal Processing, 2018, 66, 6443-6457.	5.3	10
27	A new spatio-temporal equalization method based on estimated channel response. IEEE Transactions on Vehicular Technology, 2001, 50, 1250-1259.	6.3	9
28	Interference Cancellation Schemes for Single-Carrier Block Transmission with Insufficient Cyclic Prefix. Eurasip Journal on Wireless Communications and Networking, 2007, 2008, .	2.4	9
29	Interference Mitigation Based on Partial CSI Feedback and Overhearing in an OFDMA Heterogeneous System. , 2013, , .		9
30	Compressed Sensing-Based Tag Identification Protocol for a Passive RFID System. IEEE Communications Letters, 2014, 18, 2023-2026.	4.1	9
31	Maximum Likelihood Approach for RFID Tag Cardinality Estimation under Capture Effect and Detection Errors. IEICE Transactions on Communications, 2013, E96.B, 1122-1129.	0.7	9
32	Asymptotic Performance of Discrete-Valued Vector Reconstruction via Box-Constrained Optimization With Sum of $\ell_1$ Regularizers. IEEE Transactions on Signal Processing, 2020, 68, 4320-4335.	5.3	8
33	Error Recovery for Massive MIMO Signal Detection via Reconstruction of Discrete-Valued Sparse Vector. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2671-2679.	0.3	7
34	A DOA Estimation Method With Kronecker Subspace for Coherent Signals. IEEE Communications Letters, 2018, 22, 2306-2309.	4.1	7
35	Sum Rate Maximizing Superposition Coding Scheme for a Two-User Wireless Relay System. IEEE Communications Letters, 2011, 15, 428-430.	4.1	6
36	Superposition Coding Based User Combining Schemes for Non-Orthogonal Scheduling in a Wireless Relay System. IEEE Transactions on Wireless Communications, 2014, 13, 3232-3243.	9.2	6

#	ARTICLE	IF	CITATIONS
37	An overloaded MIMO signal detection scheme with slab decoding and lattice reduction. , 2015, , .		6
38	Discreteness-aware AMP for reconstruction of symmetrically distributed discrete variables. , 2017, , .		6
39	Time Sensitive Networking for 5G NR Fronthauls and Massive IoT Traffic. Journal of Lightwave Technology, 2021, 39, 5336-5343.	4.6	6
40	Marginalized Particle Filter for Blind Signal Detection with Analog Imperfections. IEICE Transactions on Communications, 2010, E93-B, 336-344.	0.7	5
41	Multiuser detection by MAP estimation with sum-of-absolute-values relaxation. , 2016, , .		5
42	Fairness-Aware Superposition Coded Scheduling for a Multi-User Cooperative Cellular System. IEICE Transactions on Communications, 2011, E94-B, 3272-3279.	0.7	5
43	Adaptive hierarchical modulation and power allocation for superposition-coded relaying. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	4
44	Pool size control for adaptive group testing via boolean compressed sensing with solution space reduction. , 2015, , .		4
45	Binary vector reconstruction via discreteness-aware approximate message passing. , 2017, , .		4
46	Uplink Overloaded MU-MIMO OFDM Signal Detection Methods using Convex Optimization. , 2018, , .		4
47	An Adaptive Combination Rule for Diffusion LMS Based on Consensus Propagation. , 2018, , .		4
48	Distributed Approximate Message Passing with Summation Propagation. , 2018, , .		4
49	Discreteness-Aware Decoding for Overloaded Non-Orthogonal STBCs via Convex Optimization. IEEE Communications Letters, 2018, 22, 2080-2083.	4.1	4
50	Digital Cancellation of Self-Interference for Single-Frequency Full-Duplex Relay Stations via Sampled-Data Control. SICE Journal of Control Measurement and System Integration, 2015, 8, 321-327.	0.7	4
51	An adaptive antenna array for single carrier modulation with cyclic prefix. Electronics and Communications in Japan, 2005, 88, 38-48.	0.1	3
52	Frequency Domain Power Adaptation Scheme for Multi-Carrier Systems. , 2006, , .		3
53	Maximum Likelihood Approach for RFID Tag Set Cardinality Estimation with Detection Errors. Wireless Personal Communications, 2013, 71, 2587-2603.	2.7	3
54	Self-organized resource allocation based on CSI overhearing in heterogeneous networks employing cell range expansion. , 2015, , .		3

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55	An Optimized Link Layer Design for Communication-Based Train Control Systems Using WLAN. IEEE Access, 2018, 6, 6865-6877.	4.2	3
56	Diffusion LMS Based on Message Passing Algorithm. IEEE Access, 2019, 7, 47022-47033.	4.2	3
57	A Simple Adaptive Filter Method for Cancellation of Coupling Wave in OFDM Signals at SFN Relay Station. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2007, 2007, 124-128.	0.2	3
58	Long-Haul WDM/SDM Transmission over Coupled 4-Core Fiber with Coupled 4-Core EDFA and Its MDL Characteristics Estimation. , 2021, , .		3
59	Combined Frequency and Spatial Domains Power Distribution for MIMO-OFDM Transmission. , 2007, , .		2
60	Systematic design of single carrier overlap frequency domain equalization. Journal of Systems Science and Complexity, 2010, 23, 50-60.	2.8	2
61	Superposition Coding Scheme with Discrete Adaptive Modulation for Wireless Relay Systems. , 2011, , .		2
62	Sampled-data H <sup>2</sup> design of coupling wave cancelers in single-frequency full-duplex relay stations. , 2014, , .		2
63	Compressed sensing based channel estimation for uplink OFDMA systems. , 2014, , .		2
64	Direction-of-Arrival Estimation of Narrowband Waves. IEICE Fundamentals Review, 2015, 8, 143-150.	0.1	2
65	Diffusion LMS using consensus propagation. , 2017, , .		2
66	Uplink Random Access Scheme with Prioritized Orthogonal Layers for OFDMA CSI Feedback. , 2009, , .		1
67	Power distribution methods for MIMO-OFDM systems and field experimentations. Wireless Communications and Mobile Computing, 2009, 9, 1618-1628.	1.2	1
68	Performance Analysis of Discrete-valued Vector Reconstruction Based on Box-constrained Sum of L1 Regularizers. , 2019, , .		1
69	An Overloaded SC-CP IoT Signal Detection Method via Sparse Complex Discrete-Valued Vector Reconstruction. , 2019, , .		1
70	Discrete-Valued Vector Reconstruction by Optimization with Sum of Sparse Regularizers. , 2019, , .		1
71	Superposition Coding Based Wireless Network Coding Scheme for Two-Way Cooperative Relaying. IEICE Transactions on Communications, 2010, E93-B, 3354-3361.	0.7	1
72	Self-Organized Inter-Cell Interference Coordination Based on Partial CSI Sharing in Heterogeneous Networks Employing Cell Range Expansion. IEICE Transactions on Communications, 2016, E99-B, 1780-1788.	0.7	1

#	ARTICLE	IF	CITATIONS
73	A Frequency Domain Direction of Arrival Estimation Algorithm for UAV Remote-control Signal. , 2021, , .		1
74	Uplink Contention-Based CSI Feedback with Prioritized Layers for a Multi-Carrier System. IEEE Transactions on Wireless Communications, 2011, 10, 4282-4293.	9.2	0
75	Rational maps and maximum likelihood decodings. Japan Journal of Industrial and Applied Mathematics, 2012, 29, 37-62.	0.9	0
76	An RFID tag identification protocol via Boolean compressed sensing. IEICE Communications Express, 2016, 5, 118-123.	0.4	0
77	A new pool control method for Boolean compressed sensing based adaptive group testing. , 2017, , .		0
78	Dynamic ICIC for Post-Scheduling Outage Probability Minimization in Small Cell Networks. , 2017, , .		0
79	Resource Allocation for Robust Stabilization of Foschini-Miljanic Algorithm. , 2019, , .		0
80	Discreteness and group sparsity aware detection for uplink overloaded MU-MIMO systems. APSIPA Transactions on Signal and Information Processing, 2020, 9, .	3.3	0
81	An Acceleration Method of Sparse Diffusion LMS based on Message Propagation. IEICE Transactions on Communications, 2021, E104.B, 141-148.	0.7	0
82	Adaptive multi-layer filters incorporated with Volterra filters for impairment compensation including transmitter and receiver nonlinearity. Optics Express, 2021, 29, 28366.	3.4	0
83	Time-Domain Equalization for Single-Frequency Full-Duplex Wireless Relay Using $\mathcal{H}_2$ Optimal Control. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2016, 2016, 12-15.	0.2	0
84	Self-Interference Suppression Based on Sampled-Data H8 Control for Baseband Signal Subspaces. SICE Journal of Control Measurement and System Integration, 2019, 12, 182-189.	0.7	0
85	1. Fundamentals of Compressed Sensing and its Applications to Wireless Communications. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2019, 73, 431-438.	0.1	0