

# Hirosuke Yamamoto

## List of Publications by Year in descending order

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104  
papers

1,739  
citations

304743

22  
h-index

330143

37  
g-index

105  
all docs

105  
docs citations

105  
times ranked

658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polar Coding Without Alphabet Extension for Asymmetric Models. IEEE Transactions on Information Theory, 2013, 59, 7829-7838.	2.4	133
2	Private information retrieval for coded storage. , 2015, , .		128
3	Rate-distortion theory for the Shannon cipher system. IEEE Transactions on Information Theory, 1997, 43, 827-835.	2.4	117
4	Viterbi decoding algorithm for convolutional codes with repeat request. IEEE Transactions on Information Theory, 1980, 26, 540-547.	2.4	103
5	Asymptotic performance of a modified Schalkwijk-Barron scheme for channels with noiseless feedback (Corresp.). IEEE Transactions on Information Theory, 1979, 25, 729-733.	2.4	98
6	A source coding problem for sources with additional outputs to keep secret from the receiver or wiretappers (Corresp.). IEEE Transactions on Information Theory, 1983, 29, 918-923.	2.4	96
7	Secret sharing system using $(k, L, n)$ threshold scheme. Electronics and Communications in Japan, 1986, 69, 46-54.	0.1	82
8	Wyner - Ziv theory for a general function of the correlated sources (Corresp.). IEEE Transactions on Information Theory, 1982, 28, 803-807.	2.4	63
9	A coding theorem for lossy data compression by LDPC codes. IEEE Transactions on Information Theory, 2003, 49, 2225-2229.	2.4	62
10	Strongly Secure Linear Network Coding. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2008, E91-A, 2720-2728.	0.3	47
11	Source coding theory for cascade and branching communication systems. IEEE Transactions on Information Theory, 1981, 27, 299-308.	2.4	45
12	A rate-distortion problem for a communication system with a secondary decoder to be hindered. IEEE Transactions on Information Theory, 1988, 34, 835-842.	2.4	45
13	Coding theorems for Shannon's cipher system with correlated source outputs, and common information. IEEE Transactions on Information Theory, 1994, 40, 85-95.	2.4	41
14	Quantum secret sharing schemes and reversibility of quantum operations. Physical Review A, 2005, 72, .	2.5	41
15	On secret sharing communication systems with two or three channels. IEEE Transactions on Information Theory, 1986, 32, 387-393.	2.4	32
16	A coding theorem for secret sharing communication systems with two Gaussian wiretap channels. IEEE Transactions on Information Theory, 1991, 37, 634-638.	2.4	32
17	Coding theorem for secret sharing communication systems with two noisy channels. IEEE Transactions on Information Theory, 1989, 35, 572-578.	2.4	30
18	Strongly secure ramp secret sharing schemes for general access structures. Information Processing Letters, 2006, 97, 52-57.	0.6	30

#	ARTICLE	IF	CITATIONS
19	Asymptotic Properties on Codeword Lengths of an Optimal FV Code for General Sources. IEEE Transactions on Information Theory, 2005, 51, 1546-1555.	2.4	27
20	Construction of polar codes for channels with memory. , 2015, , .		27
21	Almost Instantaneous Fixed-to-Variable Length Codes. IEEE Transactions on Information Theory, 2015, 61, 6432-6443.	2.4	26
22	Optimal Multiple Assignments Based on Integer Programming in Secret Sharing Schemes with General Access Structures. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2007, E90-A, 101-112.	0.3	26
23	Secure Multiplex Coding Attaining Channel Capacity in Wiretap Channels. IEEE Transactions on Information Theory, 2013, 59, 8131-8143.	2.4	25
24	Average-sense optimality and competitive optimality for almost instantaneous VF codes. IEEE Transactions on Information Theory, 2001, 47, 2174-2184.	2.4	23
25	Worst-case Redundancy of Optimal Binary AIFV Codes and Their Extended Codes. IEEE Transactions on Information Theory, 2017, 63, 5074-5086.	2.4	20
26	On the zero-rate error exponent for a BSC with noisy feedback. Problems of Information Transmission, 2008, 44, 198-213.	0.5	16
27	Coding Theorems for the Shannon Cipher System With a Guessing Wiretapper and Correlated Source Outputs. IEEE Transactions on Information Theory, 2008, 54, 2808-2817.	2.4	14
28	How to attain the ordinary channel capacity securely in wiretap channels. , 0, , .		13
29	An Iterative Algorithm to Optimize the Average Performance of Markov Chains with Finite States. , 2019, , .		13
30	A Randomness Test Based on T-Complexity. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 1346-1354.	0.3	13
31	Noisy feedback improves the Gaussian channel reliability function. , 2014, , .		11
32	Variable Length Lossy Coding Using an LDPC Code. IEEE Transactions on Information Theory, 2014, 60, 762-775.	2.4	11
33	An Optimality Proof of the Iterative Algorithm for AIFV-m Codes. , 2018, , .		11
34	A new asymptotically optimal code for the positive integers. IEEE Transactions on Information Theory, 1991, 37, 1420-1429.	2.4	10
35	On BSC, noisy feedback and three messages. , 2008, , .		10
36	On the reliability function for a BSC with noisy feedback. Problems of Information Transmission, 2010, 46, 103-121.	0.5	10

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37	Source coding theory for a triangular communication system. IEEE Transactions on Information Theory, 1996, 42, 848-853.	2.4	9
38	A new recursive universal code of the positive integers. IEEE Transactions on Information Theory, 2000, 46, 717-723.	2.4	9
39	Noisy feedback improves the BSC reliability function. , 2009, , .		9
40	A New Randomness Test Based on Linear Complexity Profile. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 166-172.	0.3	9
41	Coding theorems for biometric systems. , 2010, , .		9
42	Error exponents of discrete memoryless channels and AWGN channels with noisy feedback. , 2010, , .		9
43	Polar coding without alphabet extension for asymmetric channels. , 2012, , .		9
44	A randomness test based on T-codes. , 2008, , .		8
45	On the reliability function for a noisy feedback Gaussian channel: Zero rate. Problems of Information Transmission, 2012, 48, 199-216.	0.5	8
46	Almost instantaneous FV codes. , 2013, , .		8
47	An iterative algorithm to construct optimal binary AIFV-m codes. , 2017, , .		7
48	Multiplex Coding of Bit Commitment Based on a Discrete Memoryless Channel. , 2007, , .		6
49	Coding of binary AIFV code trees. , 2017, , .		6
50	Channel coding theorem for the number of guesses in decoding. , 2011, , .		5
51	Multiple Object Identification Coding. IEEE Transactions on Information Theory, 2015, 61, 4269-4276.	2.4	5
52	Enumeration and Coding of Compact Code Trees for Binary AIFV Codes. , 2019, , .		5
53	A new implementation of the Ziv-Lempel incremental parsing algorithm. IEEE Transactions on Information Theory, 1991, 37, 1439-1440.	2.4	4
54	Coding theorems for secret-key authentication systems. , 0, , .		4

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55	A coding theorem for lossy data compression by LDPC codes. , 0, , .		4
56	A differential equation method to derive the formulas of the T-complexity and the LZ-complexity. , 2009, , .		4
57	Unsupervised anomaly detection within non- numerical sequence data by average index difference, with application to masquerade detection. Applied Stochastic Models in Business and Industry, 2014, 30, 632-656.	1.5	4
58	Alphabetic AIFV Codes Constructed from Hu- Tucker codes. , 2018, , .		4
59	On a Redundancy of AIFV-m Codes for $m = 3, 5$ . , 2020, , .		4
60	Competitive optimality of source codes. IEEE Transactions on Information Theory, 1995, 41, 2015-2019.	2.4	3
61	Data Compression Based on a Dictionary Method Using Recursive Construction of T-Codes. , 2010, , .		3
62	On using noisy feedback in a Gaussian channel. Problems of Information Transmission, 2014, 50, 217-231.	0.5	3
63	On the capacity of symmetric Gaussian interference channels with feedback. , 2015, , .		3
64	An Algorithm for Constructing the Optimal Code Trees for Binary Alphabetic AIFV-m Codes. , 2021, , .		3
65	A Cheating-Detectable ( $k$ , $L$ , $n$ ) Ramp Secret Sharing Scheme. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2709-2719.	0.3	3
66	Dynamic AIFV Coding. , 2018, , .		3
67	Correction to 'Wyner-Ziv theory for a general function of the correlated sources' (Sep 82 803-807). IEEE Transactions on Information Theory, 1983, 29, 320-320.	2.4	2
68	A coding theorem for cheating-detectable $(2, 2)$ -threshold blockwise secret sharing schemes. , 2009, , .		2
69	Separate network coding for private and common messages from one source to two sinks. , 2009, , .		2
70	On decoding error exponent of Gaussian channel with noisy feedback: Nonexponential number of messages. , 2012, , .		2
71	Tight upper bounds on the redundancy of optimal binary AIFV codes. , 2016, , .		2
72	On optimal transmission strategies for channels with noiseless feedback. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
73	Highly sensitive universal statistical test. , 2016, , .		2
74	On optimal error exponents in noiseless channel identification. , 2017, , .		2
75	Anomaly Detection Using Time Index Differences of Identical Symbols with and without Training Data. Lecture Notes in Computer Science, 2009, , 619-626.	1.3	2
76	Generalized Security Analysis of the Random Key Bits Leakage Attack. Lecture Notes in Computer Science, 2012, , 13-27.	1.3	2
77	Posterior Matching for Gaussian Broadcast Channels with Feedback. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1165-1178.	0.3	2
78	Correction to 'Asymptotic Performance of a Modified Schalkwijk-Barron Scheme for Channels with Noiseless Feedback'. IEEE Transactions on Information Theory, 1980, 26, 628-628.	2.4	1
79	Evaluation of a retrieval system using content addressable memory. Systems and Computers in Japan, 1989, 20, 1-9.	0.2	1
80	Rate-distortion theory for the Shannon cipher system. , 0, , .		1
81	Asymptotic properties on the codeword length distribution of optimal FV codes for general sources. , 0, , .		1
82	Asymptotic Redundancy of the MTF Scheme for Stationary Ergodic Sources. IEEE Transactions on Information Theory, 2005, 51, 3742-3752.	2.4	1
83	Strongly secure ramp secret sharing schemes. , 2005, , .		1
84	Variable length lossy coding using an LDPC code. , 2009, , .		1
85	Coding theorems for a $(2, 2)$ -threshold scheme secure against impersonation by an opponent. , 2009, , .		1
86	Representative sequence selection in unsupervised anomaly detection using spectrum kernel with theoretical parameter setting. , 2010, , .		1
87	On the Hardness of Subset Sum Problem from Different Intervals. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 903-908.	0.3	1
88	Coding Theorems for a $(2, 2)$ -Threshold Scheme With Detectability of Impersonation Attacks. IEEE Transactions on Information Theory, 2012, 58, 6194-6206.	2.4	1
89	Identification codes to identify multiple objects. , 2014, , .		1
90	FV polar coding for lossy compression with an improved exponent. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
91	Variable-to-fixed length homophonic coding suitable for asymmetric channel coding. , 2017, , .		1
92	A Universal Data Compression Scheme based on the AIVF Coding Techniques. , 2020, , .		1
93	AIVF Codes Based on Iterative Algorithm and Dynamic Programming. , 2021, , .		1
94	Rate-distortion theory for a triangular communication system. , 0, , .		0
95	New recursive universal code of positive integers. , 0, , .		0
96	Asymptotic properties on codeword length distribution of FV codes for general sources. , 0, , .		0
97	Redundancy of the MTF scheme for stationary ergodic sources. , 0, , .		0
98	Asymptotic optimality of tree-based group key management schemes. , 2005, , .		0
99	The coding theorems for the Shannon cipher system with a guessing wiretapper and correlated source outputs. , 2006, , .		0
100	Deniable ring authenticated private key establishment. , 2008, , .		0
101	Application of LCLP to lossy source coding. , 2008, , .		0
102	Application of Yamamoto-Itoh coding scheme to discrete memoryless broadcast channels. , 2017, , .		0
103	On the Capacity of Symmetric M-User Gaussian Interference Channels With Feedback. IEEE Transactions on Information Theory, 2020, 66, 722-741.	2.4	0
104	Direct- or Fast-Access Decoding Schemes for VF Codes. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 2291-2295.	0.3	0