Shun Watanabe

List of Publications by Year
in descending order

81 papers	907 citations	471371 17 h-index	580701 25 g-index
81 all docs	81 docs citations	81 times ranked	354 citing authors

#	Article	IF	Citations
1	Minimax Converse for Identification via Channels. IEEE Transactions on Information Theory, 2022, 68, 25-34.	1.5	6
2	Information Geometry of Reversible Markov Chains. Information Geometry, 2021, 4, 393-433.	0.8	5
3	The Achievable Rate Region of Wyner-Ahlswede-Körner Coding Problem for Mixed Sources. , 2021, , .		2
4	Interval Algorithm for Random Number Generation: Information Spectrum Approach. IEEE Transactions on Information Theory, 2020, 66, 1691-1701.	1.5	3
5	Communication for Generating Correlation: A Unifying Survey. IEEE Transactions on Information Theory, 2020, 66, 5-37.	1.5	15
6	Isomorphism Problem Revisited: Information Spectrum Approach. , 2020, , .		0
7	A Classification of Functions in Multiterminal Distributed Computing. IEEE Transactions on Information Theory, 2020, 66, 6169-6183.	1.5	3
8	Strong Converse Using Change of Measure Arguments. IEEE Transactions on Information Theory, 2020, 66, 689-703.	1.5	22
9	Finite-Length Analyses for Source and Channel Coding on Markov Chains. Entropy, 2020, 22, 460.	1.1	9
10	Interval Algorithm for Random Number Generation: Information Spectrum Approach. , 2019, , .		0
11	A New Proof of Nonsignalling Multiprover Parallel Repetition Theorem. , 2019, , .		1
12	Neyman–Pearson Test for Zero-Rate Multiterminal Hypothesis Testing. IEEE Transactions on Information Theory, 2018, 64, 4923-4939.	1.5	22
13	Interactive Communication for Data Exchange. IEEE Transactions on Information Theory, 2018, 64, 26-37.	1.5	5
14	A Classification of Functions in Multiterminal Distributed Computing. , 2018, , .		0
15	Strong Converse using Change of Measure Arguments. , 2018, , .		7
16	Second-Order Optimal Test in Composite Hypothesis Testing. , 2018, , .		1
17	Universal Multiparty Data Exchange and Secret Key Agreement. IEEE Transactions on Information Theory, 2017, 63, 4057-4074.	1.5	12
18	Second-Order Region for Gray–Wyner Network. IEEE Transactions on Information Theory, 2017, 63, 1006-1018.	1.5	23

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19	Neyman-Pearson test for zero-rate multiterminal hypothesis testing. , 2017, , .		2
20	Finite-length analysis on tail probability for Markov chain and application to simple hypothesis testing. Annals of Applied Probability, 2017, 27, .	0.6	23
21	Information Complexity Density and Simulation of Protocols. IEEE Transactions on Information Theory, 2017, 63, 6979-7002.	1.5	4
22	On Distributed Computing for Functions With Certain Structures. IEEE Transactions on Information Theory, 2017, 63, 7003-7017.	1.5	4
23	Optimality of the recursive data exchange protocol. , 2017, , .		3
24	A converse bound on Wyner-Ahlswede-KÃ¶rner Network via Gray-Wyner network. , 2017, , .		4
25	Information geometry approach to parameter estimation in Markov chains. Annals of Statistics, 2016, 44, .	1.4	21
26	Secret Key Agreement: General Capacity and Second-Order Asymptotics. IEEE Transactions on Information Theory, 2016, 62, 3796-3810.	1.5	34
27	Universal multiparty data exchange. , 2016, , .		2
28	On distributed computing for functions with certain structures. , 2016, , .		2
29	Channel Simulation and Coded Source Compression. IEEE Transactions on Information Theory, 2016, 62, 6609-6619.	1.5	14
30	Information Complexity Density and Simulation of Protocols. , 2016, , .		1
31	Uniform Random Number Generation From Markov Chains: Non-Asymptotic and Asymptotic Analyses. IEEE Transactions on Information Theory, 2016, 62, 1795-1822.	1.5	23
32	Fully quantum source compression with a quantum helper. , 2015, , .		2
33	Impossibility bounds for secure computing. , 2015, , .		0
34	Interactive communication for data exchange. , 2015, , .		8
35	Nonasymptotic and Second-Order Achievability Bounds for Coding With Side-Information. IEEE Transactions on Information Theory, 2015, 61, 1574-1605.	1.5	49
36	An Information-Spectrum Approach to Weak Variable-Length Source Coding With Side-Information. IEEE Transactions on Information Theory, 2015, 61, 3559-3573.	1.5	5

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37	A dichotomy of functions in distributed coding: An information spectral approach. , 2015, , .		0
38	Source compression with a quantum helper. , 2015, , .		3
39	Common randomness for secure computing. , 2015, , .		7
40	The Optimal Use of Rate-Limited Randomness in Broadcast Channels With Confidential Messages. IEEE Transactions on Information Theory, 2015, 61, 983-995.	1.5	10
41	Converses For Secret Key Agreement and Secure Computing. IEEE Transactions on Information Theory, 2015, 61, 4809-4827.	1.5	48
42	A Dichotomy of Functions in Distributed Coding: An Information Spectral Approach. IEEE Transactions on Information Theory, 2015, 61, 5028-5041.	1.5	10
43	Strong converse and second-order asymptotics of channel resolvability. , 2014, , .		20
44	Moderate deviations for joint source-channel coding of systems with Markovian memory. , 2014, , .		11
45	Secret key agreement: General capacity and second-order asymptotics. , 2014, , .		13
46	Converse results for secrecy generation over channels. , 2014, , .		0
47	Strong converse for a degraded wiretap channel via active hypothesis testing. , 2014, , .		23
48	An information-spectrum approach to weak variable-length Slepian-Wolf coding. , 2014, , .		1
49	Universal Wyner–Ziv Coding for Distortion Constrained General Side Information. IEEE Transactions on Information Theory, 2014, 60, 7568-7583.	1.5	5
50	Cognitive Interference Channels With Confidential Messages Under Randomness Constraint. IEEE Transactions on Information Theory, 2014, 60, 7698-7707.	1.5	5
51	Optimal axis compensation in quantum key distribution protocols over unital channels. Theoretical Computer Science, 2014, 560, 91-106.	0.5	2
52	Information geometry approach to parameter estimation in Markov chains. , 2014, , .		4
53	Non-asymptotic and asymptotic analyses on Markov chains in several problems. , 2014, , .		9
54	A Bound for Multiparty Secret Key Agreement and Implications for a Problem of Secure Computing. Lecture Notes in Computer Science, 2014, , 369-386.	1.0	27

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55	Secret key capacity for multipleaccess channel with public feedback. , 2013, , .		6
56	The Rate-Distortion Function for Product of Two Sources With Side-Information at Decoders. IEEE Transactions on Information Theory, 2013, 59, 5678-5691.	1.5	15
57	Universal Wyner-Ziv coding for distortion constrained general side-information. , 2013, , .		1
58	Non-asymptotic and second-order achievability bounds for source coding with side-information. , 2013, , .		17
59	Non-asymptotic bounds on fixed length source coding for Markov chains. , 2013, , .		3
60	Non-asymptotic analysis of privacy amplification via R&#x00E9;nyi entropy and inf-spectral entropy. , 2013, , .		30
61	Information Theoretically Secure Key Agreement and Related Topics. Ieice Ess Fundamentals Review, 2013, 7, 38-50.	0.1	0
62	Private and quantum capacities of more capable and less noisy quantum channels. Physical Review A, 2012, 85, .	1.0	30
63	Broadcast channels with confidential messages by randomness constrained stochastic encoder. , 2012, , .		10
64	Privacy amplification theorem for bounded storage eavesdropper. , 2012, , .		2
65	Expurgation exponent of leaked information in privacy amplification for binary sources. , 2012, , .		0
66	Secret Key Agreement From Vector Gaussian Sources by Rate Limited Public Communication. IEEE Transactions on Information Forensics and Security, 2011, 6, 541-550.	4.5	51
67	The rate-distortion function for product of two sources with side-information at decoders. , 2011, , .		6
68	Secret Key Agreement from Correlated Gaussian Sources by Rate Limited Public Communication. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 1976-1983.	0.2	31
69	Secret key agreement from vector Gaussian sources by rate limited public communication. , 2010, , .		14
70	Narrow basis angle doubles secret key in the BB84 protocol. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 145302.	0.7	4
71	Strongly Secure Privacy Amplification Cannot Be Obtained by Encoder of Slepian-Wolf Code. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 1650-1659.	0.2	16
72	Strongly secure privacy amplification cannot be obtained by encoder of Slepian-Wolf code. , 2009, , .		2

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73	Optimal axis compensation in quantum key distribution protocols over unital channels. , 2009, , .		1
74	Universal Source Coding Over Generalized Complementary Delivery Networks. IEEE Transactions on Information Theory, 2009, 55, 1360-1373.	1.5	8
75	Secret Key Agreement by Soft-Decision of Signals in Gaussian Maurer's Model. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 525-534.	0.2	20
76	Tomography increases key rates of quantum-key-distribution protocols. Physical Review A, 2008, 78, .	1.0	43
77	Secret key agreement by reliability information of signals in Gaussian Maurer&#x2019;s Model. , 2008, , .		4
78	Key rate of quantum key distribution with hashed two-way classical communication. Physical Review A, 2007, 76, .	1.0	33
79	Key rate of quantum key distribution with hashed two-way classical communication. , 2007, , .		4
80	Improvement of stabilizer-based entanglement distillation protocols by encoding operators. Journal of Physics A, 2006, 39, 4273-4290.	1.6	4
81	NOISE TOLERANCE OF THE BB84 PROTOCOL WITH RANDOM PRIVACY AMPLIFICATION. International Journal of Quantum Information, 2006, 04, 935-946.	0.6	17