JÃ¶rg Kliewer

List of Publications by Year
in descending order

150 papers	2,391 citations	361413 20 h-index	302126 39 g-index
150 all docs	150 docs citations	150 times ranked	1520 citing authors

#	Article	IF	Citations
1	Code Constructions and Bounds for Identification via Channels. IEEE Transactions on Communications, 2022, 70, 1486-1496.	7.8	5
2	Private Linear Computation for Noncolluding Coded Databases. IEEE Journal on Selected Areas in Communications, 2022, 40, 847-861.	14.0	3
3	Optimal Rate-Distortion-Leakage Tradeoff for Single-Server Information Retrieval. IEEE Journal on Selected Areas in Communications, 2022, 40, 832-846.	14.0	3
4	Private Polynomial Function Computation for Noncolluding Coded Databases. IEEE Transactions on Information Forensics and Security, 2022, 17, 1800-1813.	6.9	1
5	When Differential Privacy Implies Syntactic Privacy. IEEE Transactions on Information Forensics and Security, 2022, 17, 2110-2124.	6.9	1
6	Error correction for low power sensors in asynchronous communication. Signal Processing, 2021, 182, 107946.	3.7	2
7	A Code and Rate Equivalence Between Secure Network and Index Coding. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 106-120.	2.5	5
8	Strong Coordination Over Noisy Channels. IEEE Transactions on Information Theory, 2021, 67, 2716-2738.	2.4	2
9	Belief Propagation Decoding of Short Graph-Based Channel Codes via Reinforcement Learning. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 627-640.	2.5	8
10	Nested Array-Based Spatially Coupled LDPC Codes. IEEE Transactions on Communications, 2021, 69, 3502-3516.	7.8	2
11	Optimal Rate-Distortion-Leakage Tradeoff for Single-Server Information Retrieval. , 2021, , .		1
12	Iteration Based Analysis of Straggling Channel Decoders for Network Function Virtualization. , 2021, , .		0
13	Information Leakage in Index Coding. , 2021, , .		2
14	JSAIT Editorial for the Special Issue on â€œBeyond Errors and Erasures: Coding for Data Management and Delivery in Networksâ€. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 1075-1077.	2.5	0
15	Authentication with Mildly Myopic Adversaries. , 2020, , .		4
16	Authentication and Partial Message Correction over Adversarial Multiple-Access Channels. , 2020, , .		3
17	Secure Distributed Storage: Rate-Privacy Trade-Off and XOR-Based Coding Scheme. , 2020, , .		6
18	Learned Scheduling of LDPC Decoders Based on Multi-armed Bandits. , 2020, , .		1

#	Article	IF	Citations
19	Coded Computation Against Straggling Channel Decoders in the Cloud for Gaussian Channels. , 2020, , .		1
20	Private and Secure Distributed Matrix Multiplication With Flexible Communication Load. IEEE Transactions on Information Forensics and Security, 2020, 15, 2722-2734.	6.9	55
21	Private Polynomial Computation for Noncolluding Coded Databases. , 2019, , .		5
22	Authentication Against a Myopic Adversary. , 2019, , .		6
23	On the Capacity of Private Nonlinear Computation for Replicated Databases. , 2019, , .		3
24	Optimization of Nested Array-based LDPC Codes Via Spatial Coupling. , 2019, , .		1
25	Optimal-Rate Characterisation for Pliable Index Coding using Absent Receivers. , 2019, , .		6
26	Correcting Deletions in Probabilistic Non-Binary Segmented Burst Deletion Channels. , 2019, , .		1
27	Distributed and Private Coded Matrix Computation with Flexible Communication Load. , 2019, , .		26
28	Structured Coding for Authentication in the Presence of a Malicious Adversary. , 2019, , .		5
29	LDPC Coded Multiuser Shaping for the Gaussian Multiple Access Channel. , 2019, , .		2
30	Coded Computation Against Processing Delays for Virtualized Cloud-Based Channel Decoding. IEEE Transactions on Communications, 2019, 67, 28-38.	7.8	12
31	Strong Converses are Just Edge Removal Properties. IEEE Transactions on Information Theory, 2019, 65, 3315-3339.	2.4	4
32	Strong Coordination Over Multi-Hop Line Networks Using Channel Resolvability Codebooks. IEEE Transactions on Information Theory, 2018, 64, 1132-1162.	2.4	7
33	Single-Unicast Secure Network Coding and Network Error Correction are as Hard as Multiple-Unicast Network Coding. IEEE Transactions on Information Theory, 2018, 64, 4496-4512.	2.4	7
34	Empirical and Strong Coordination via Soft Covering With Polar Codes. IEEE Transactions on Information Theory, 2018, 64, 5087-5100.	2.4	15
35	Capacity of Private Linear Computation for Coded Databases. , 2018, , .		20
36	Algebraic Optimization of Binary Spatially Coupled Measurement Matrices for Interval Passing. , 2018, , .		1

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37	Quantifying Neuronal Information Flow in Response to Frequency and Intensity Changes in the Auditory Cortex. , 2018, 2018, 1367-1371.		2
38	New Results on the Equality of Exact and Wyner Common Information Rates. , 2018, , .		6
39	Finite Blocklength and Dispersion Bounds for the Arbitrarily- Varying Channel. , 2018, , .		4
40	Secure Network-Index Code Equivalence: Extension to Non-zero Error and Leakage. , 2018, , .		7
41	Coded Computation Against Straggling Decoders for Network Function Virtualization. , 2018, , .		8
42	Achievable Rate of Private Function Retrieval from MDS Coded Databases. , 2018, , .		24
43	Authentication Capacity of Adversarial Channels. , 2018, , .		17
44	Encoding of Spatially Coupled LDGM Codes for Lossy Source Compression. IEEE Transactions on Communications, 2018, 66, 5691-5703.	7.8	7
45	Coding Schemes for Achieving Strong Secrecy at Negligible Cost. IEEE Transactions on Information Theory, 2017, 63, 1858-1873.	2.4	6
46	Dispersion of the discrete arbitrarily-varying channel with limited shared randomness. , 2017, , .		2
47	A new EEG-based causal information measure for identifying brain connectivity in response to perceived audio quality. , 2017, , .		2
48	Equivalence for Networks With Adversarial State. IEEE Transactions on Information Theory, 2017, 63, 4137-4154.	2.4	4
49	Joint coordination-channel coding for strong coordination over noisy channels based on polar codes. , 2017, , .		2
50	Strong coordination over noisy channels: Is separation sufficient?. , 2017, , .		3
51	A generalized algebraic approach to optimizing SC-LDPC codes. , 2017, , .		18
52	Directional and Causal Information Flow in EEG for Assessing Perceived Audio Quality. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 150-165.	2.1	8
53	Joint constellation and code design for the Gaussian multiple access channel. , 2017, , .		2
54	Secure index coding: Existence and construction. , 2016, , .		14

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55	On error correction for asynchronous communication based on iterative processing. , 2016, , .		3
56	Asymmetric Error Correction and Flash-Memory Rewriting Using Polar Codes. IEEE Transactions on Information Theory, 2016, 62, 4024-4038.	2.4	21
57	On the relationship between edge removal and strong converses. , 2016, , .		3
58	Error correction for asynchronous communication. , 2016, , .		2
59	Network equivalence for a joint compound-arbitrarily-varying network model. , 2016, , .		4
60	Communication Efficient Secret Sharing. IEEE Transactions on Information Theory, 2016, 62, 7195-7206.	2.4	51
61	Optimized Design of Finite-Length Separable Circulant-Based Spatially-Coupled Codes: An Absorbing Set-Based Analysis. IEEE Transactions on Communications, 2016, , 1-1.	7.8	18
62	Windowed encoding of spatially coupled LDGM codes for lossy source compression. , 2016, , .		2
63	Sufficient conditions for the equality of exact and Wyner common information. , 2016, , .		7
64	An Equivalence between Secure Network and Index Coding. , 2016, , .		6
65	Lossy compression with near-uniform encoder outputs. , 2016, , .		0
66	Strong coordination over a line when actions are Markovian. , 2016, , .		4
67	Guest Editorial Recent Advances in Capacity Approaching Codes. IEEE Journal on Selected Areas in Communications, 2016, 34, 205-208.	14.0	7
68	Lossy compression with privacy constraints: Optimality of polar codes. , 2015, , .		1
69	Strong coordination over multi-hop line networks. , 2015, , .		11
70	Directed information measures for assessing perceived audio quality using EEG. , 2015, , .		2
71	Polar coding for empirical and strong coordination via distribution approximation. , 2015, , .		13
72	Lossless and lossy source compression with near-uniform output: Is common randomness always required?. , 2015, , .		3

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73	Connecting multiple-unicast and network error correction: Reduction and unachievability. , 2015, , .		4
74	Asynchronous communication for wireless sensors using ultra wideband impulse radio. , 2015, , .		4
75	An Information Theoretic Approach Toward Assessing Perceptual Audio Quality Using EEG. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 176-187.	2.1	3
76	Optimized array-based spatially-coupled LDPC Codes: An absorbing set approach. , 2015, , .		10
77	Catch Me If You Can. , 2015, , .		23
78	Equivalence for networks with adversarial state. , 2014, , .		4
79	Assessing subjective perception of audio quality by measuring the information flow on the brain-response channel. , 2014, , .		3
80	Low-complexity channel resolvability codes for the symmetric multiple-access channel. , 2014, , .		11
81	Strong coordination over a three-terminal relay network. , 2014, , .		11
82	Single-source/sink network error correction is as hard as multiple-unicast. , 2014, , .		2
83	Reverse edge cut-set bounds for secure network coding. , 2014, , .		2
84	Polar coding for noisy write-once memories. , 2014, , .		9
85	Analysis and Enumeration of Absorbing Sets for Non-Binary Graph-Based Codes. IEEE Transactions on Communications, 2014, 62, 398-409.	7.8	39
86	Joint design of channel and network coding for star networks connected by binary symmetric channels. IEEE Transactions on Communications, 2014, 62, 158-169.	7.8	3
87	Spatially coupled sparse codes on graphs: theory and practice. , 2014, 52, 168-176.		68
88	On Secure Network Coding With Nonuniform or Restricted Wiretap Sets. IEEE Transactions on Information Theory, 2013, 59, 166-176.	2.4	73
89	On polarization for the linear operator channel. , 2013, , .		0
90	On Achieving an Asymptotically Error-Free Fixed-Point of Iterative Decoding for Perfect A Priori Information. IEEE Transactions on Communications, 2013, 61, 2146-2155.	7.8	0

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91	Performance Analysis and Design of Two Edge-Type LDPC Codes for the BEC Wiretap Channel. IEEE Transactions on Information Theory, 2013, 59, 1048-1064.	2.4	20
92	On secure network coding with uniform wiretap sets. , 2013, , .		16
93	Analysis and enumeration of absorbing sets for non-binary graph-based codes. , 2013, , .		6
94	Joint channel/network coding for star networks. , 2013, , .		2
95	Strong coordination over a line network. , 2013, , .		19
96	An algebraic framework for concatenated linear block codes in side information based problems. , 2012, , .		0
97	Communication Protocols for N-way All-Cast Relay Networks. IEEE Transactions on Communications, 2012, 60, 3239-3251.	7.8	10
98	Network equivalence in the presence of an eavesdropper. , 2012, , .		3
99	Design of Network Codes for Multiple-User Multiple-Relay Wireless Networks. IEEE Transactions on Communications, 2012, 60, 3755-3766.	7.8	79
100	Strong coordination with polar codes. , 2012, , .		26
101	Analysis and Design of Tuned Turbo Codes. IEEE Transactions on Information Theory, 2012, 58, 4796-4813.	2.4	12
102	On the delay and energy performance in coded two-hop line networks with bursty erasures. , 2011, , .		6
103	Multiple-Access Network Information-Flow and Correction Codes. IEEE Transactions on Information Theory, 2011, 57, 1067-1079.	2.4	16
104	On the optimal block length for joint channel and network coding. , 2011, , .		11
105	Energy-delay considerations in coded packet flows. , 2011, , .		2
106	On secure communication over a class of degraded relay networks. , 2010, , .		0
107	Equivocation of eve using two edge type LDPC codes for the binary erasure wiretap channel. , 2010, , .		6
108	On secure network coding with unequal link capacities and restricted wiretapping sets. , 2010, , .		11

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109	When Huffman Meets Hamming: A Class of Optimal Variable-Length Error Correcting Codes. , 2010, , .		2
110	Nested Polar Codes for Wiretap and Relay Channels. IEEE Communications Letters, 2010, 14, 752-754.	4.1	138
111	Achievable strategies for general secure network coding. , 2010, , .		10
112	Algebraic constructions of graph-based nested codes from protographs. , 2010, , .		14
113	Achievable rate and optimal physical layer rate allocation in interference-free wireless networks. , 2009, , .		8
114	Trapping set enumerators for repeat multiple accumulate code ensembles. , 2009, , .		8
115	Double Serially Concatenated Convolutional Codes With Jointly Designed S-Type Permutors. IEEE Transactions on Information Theory, 2009, 55, 5811-5821.	2.4	1
116	An efficient variable-length code construction for iterative source-channel decoding. IEEE Transactions on Communications, 2009, 57, 2005-2013.	7.8	10
117	Memoryless relay strategies for two-way relay channels. IEEE Transactions on Communications, 2009, 57, 3132-3143.	7.8	67
118	Error performance analysis of signal superposition coded cooperative diversity. IEEE Transactions on Communications, 2009, 57, 3123-3131.	7.8	18
119	On trapping sets for repeat accumulate accumulate codes. , 2009, , .		1
120	Two edge type LDPC codes for the wiretap channel. , 2009, , .		13
121	Rate Regions for coherent and noncoherent multisource network error correction. , 2009, , .		10
122	Near-capacity turbo trellis coded modulation design based on EXIT charts and union bounds - [transactions papers]. IEEE Transactions on Communications, 2008, 56, 2030-2039.	7.8	37
123	Some results on relay strategies for memoryless two-way relay channels. , 2008, , .		18
124	Hybrid concatenated codes with asymptotically good distance growth. , 2008, , .		15
125	Space-Time Communication Protocols for N-Way Relay Networks. , 2008, , .		26
126	Tuned turbo codes. , 2008, , .		4

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127	On the minimum trapping distance of repeat accumulate accumulate codes. , 2008, , .		4
128	Minimum distance bounds for multiple-serially concatenated code ensembles. , 2008, , .		6
129	Algebraic Superposition of LDGM Codes for Cooperative Diversity. , 2007, , .		5
130	On the Performance of Joint and Separate Channel and Network Coding in Wireless Fading Networks. , 2007, , .		16
131	Signal Superposition Coded Cooperative Diversity: Analysis and Optimization. , 2007, , .		8
132	Coding Schemes for an Erasure Relay Channel. , 2007, , .		1
133	The Design and Performance of Distributed LT Codes. IEEE Transactions on Information Theory, 2007, 53, 3740-3754.	2.4	89
134	A network coding approach to cooperative diversity. IEEE Transactions on Information Theory, 2007, 53, 3714-3722.	2.4	226
135	Distributed LT Codes. , 2006, , .		26
136	Iterative Source-Channel Decoding With Markov Random Field Source Models. IEEE Transactions on Signal Processing, 2006, 54, 3688-3701.	5.3	40
137	Near-perfect-reconstruction low-complexity two-band IIR/FIR QMF banks with FIR phase-compensation filters. Signal Processing, 2006, 86, 171-181.	3.7	11
138	Efficient Computation of EXIT Functions for Nonbinary Iterative Decoding. IEEE Transactions on Communications, 2006, 54, 2133-2136.	7.8	75
139	Nested codes with multiple interpretations. , 2006, , .		48
140	Cooperative diversity based on code superposition. , 2006, , .		21
141	On the Achievable Extrinsic Information of Inner Decoders in Serial Concatenation. , 2006, , .		27
142	Low-Complexity Iterative Joint Source- Channel Decoding for Variable-Length Encoded Markov Sources. IEEE Transactions on Communications, 2005, 53, 2054-2064.	7.8	30
143	Iterative joint source-channel decoding of variable-length codes using residual source redundancy. IEEE Transactions on Wireless Communications, 2005, 4, 919-929.	9.2	51
144	Memory efficient adaptation of vector quantizers to time-varying channels. Signal Processing, 2003, 83, 1519-1528.	3.7	2

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145	Robust decoding of variable-length encoded Markov sources using a three-dimensional trellis. IEEE Communications Letters, 2003, 7, 320-322.	4.1	27
146	Luminescence from Metallic Quantum Wells in a Scanning Tunneling Microscope. Physical Review Letters, 2001, 87, 176803.	7.8	75
147	Scanning tunnelling spectroscopy of electron resonators. New Journal of Physics, 2001, 3, 22-22.	2.9	79
148	Scanning tunneling spectroscopy of Na on Cu(111). Physical Review B, 2001, 65, .	3.2	43
149	Processing arbitrary-length signals with linear-phase cosine-modulated filter banks. Signal Processing, 2000, 80, 1515-1533.	3.7	6
150	Oversampled cosine-modulated filter banks with arbitrary system delay. IEEE Transactions on Signal Processing, 1998, 46, 941-955.	5.3	41