Jaekyun Moon

List of Publications by Year
in descending order

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100 papers	1,422 citations	471509 17 h-index	434195 31 g-index
100 all docs	100 docs citations	100 times ranked	804 citing authors

#	Article	IF	Citations
1	Coded Wireless Distributed Computing With Packet Losses and Retransmissions. IEEE Transactions on Wireless Communications, 2021, 20, 8204-8217.	9.2	10
2	Characterization of Inter-Cell Interference in 3D NAND Flash Memory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1183-1192.	5.4	6
3	Hierarchical Broadcast Coding: Expediting Distributed Learning at the Wireless Edge. IEEE Transactions on Wireless Communications, 2021, 20, 2266-2281.	9.2	4
4	Probabilistic Caching and Dynamic Delivery Policies for Categorized Contents and Consecutive User Demands. IEEE Transactions on Wireless Communications, 2021, 20, 2685-2699.	9.2	14
5	TiBroco: A Fast and Secure Distributed Learning Framework for Tiered Wireless Edge Networks. , 2021, , .		1
6	FedMes: Speeding Up Federated Learning With Multiple Edge Servers. IEEE Journal on Selected Areas in Communications, 2021, 39, 3870-3885.	14.0	14
7	Cache Allocations for Consecutive Requests of Categorized Contents: Service Providerâ€™s Perspective. , 2020, , .		2
8	Improving SSD Read Latency via Coding. IEEE Transactions on Computers, 2020, 69, 1809-1822.	3.4	0
9	Capacity of Clustered Distributed Storage. IEEE Transactions on Information Theory, 2019, 65, 81-107.	2.4	30
10	Probabilistic Caching Policy for Categorized Contents and Consecutive User Demands. , 2019, , .		7
11	Coded Distributed Computing over Packet Erasure Channels. , 2019, , .		10
12	Scalable Network-Coded PBFT Consensus Algorithm. , 2019, , .		18
13	Dynamic Power Allocation and User Scheduling for Power-Efficient and Delay-Constrained Multiple Access Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4846-4858.	9.2	30
14	Secure Clustered Distributed Storage Against Eavesdropping. IEEE Transactions on Information Theory, 2019, 65, 7646-7668.	2.4	3
15	Irregular Product Coded Computation for High-Dimensional Matrix Multiplication. , 2019, , .		6
16	Coded Matrix Multiplication on a Group-Based Model. , 2019, , .		19
17	LDPC Code Design for Distributed Storage: Balancing Repair Bandwidth, Reliability, and Storage Overhead. IEEE Transactions on Communications, 2018, 66, 507-520.	7.8	14
18	Adaptive Detector Selection for Queue-Stable Word Error Rate Minimization in Connected Vehicle Receiver Design. IEEE Transactions on Vehicular Technology, 2018, 67, 3635-3639.	6.3	7

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19	Bi-Directional Cooperative NOMA Without Full CSIT. IEEE Transactions on Wireless Communications, 2018, 17, 7515-7527.	9.2	16
20	Hierarchical Coding for Distributed Computing. , 2018, , .		55
21	Combined Window-Filter Waveform Design With Transmitter-Side Channel State Information. IEEE Transactions on Vehicular Technology, 2018, 67, 8959-8963.	6.3	3
22	Wireless Video Caching and Dynamic Streaming Under Differentiated Quality Requirements. IEEE Journal on Selected Areas in Communications, 2018, 36, 1245-1257.	14.0	61
23	Combined Subband-Subcarrier Spectral Shaping in Multi-Carrier Modulation Under the Excess Frame Length Constraint. IEEE Journal on Selected Areas in Communications, 2017, 35, 1339-1352.	14.0	6
24	Pilot Reuse Strategy Maximizing the Weighted-Sum-Rate in Massive MIMO Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 1728-1740.	14.0	6
25	On Reusing Pilots Among Interfering Cells in Massive MIMO. IEEE Transactions on Wireless Communications, 2017, 16, 8092-8104.	9.2	36
26	Improving read access time of high-performance solid-state drives via layered coding schemes. , 2017, , .		1
27	Secure clustered distributed storage against eavesdroppers. , 2017, , .		2
28	Capacity of clustered distributed storage. , 2017, , .		6
29	Reducing repair-bandwidth using codes based on factor graphs. , 2016, , .		4
30	RS-LDPC Concatenated Coding for the Modern Tape Storage Channel. IEEE Transactions on Communications, 2016, 64, 59-69.	7.8	9
31	Breaking the Trapping Sets in LDPC Codes: Check Node Removal and Collaborative Decoding. IEEE Transactions on Communications, 2016, 64, 15-26.	7.8	11
32	When pilots should not be reused across interfering cells in massive MIMO. , 2015, , .		5
33	Upper Limits on Achievable Storage Density Using Turbo Equalization in 2-D Magnetic Recording. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0
34	Two-Dimensional Error-Pattern-Correcting Codes. IEEE Transactions on Communications, 2015, 63, 2725-2740.	7.8	5
35	Communication Turbo Equalization of 2-D Intersymbol Interference Using Multiple 1-D Constituent Equalizers. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	4
36	Concatenated Raptor Codes in NAND Flash Memory. IEEE Journal on Selected Areas in Communications, 2014, 32, 857-869.	14.0	7

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37	Experimental Characterization of Transition Noise in HAMR. IEEE Transactions on Magnetics, 2013, 49, 3675-3678.	2.1	7
38	Regularized Zero-Forcing Interference Alignment for the Two-Cell MIMO Interfering Broadcast Channel. IEEE Communications Letters, 2013, 17, 1336-1339.	4.1	12
39	RS-Enhanced TCM for Multilevel Flash Memories. IEEE Transactions on Communications, 2013, 61, 1674-1683.	7.8	7
40	Statistical Characterization of Noise and Interference in NAND Flash Memory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 2153-2164.	5.4	21
41	Self-Iterating Soft Equalizer. IEEE Transactions on Communications, 2013, 61, 3697-3709.	7.8	12
42	Multi-directional self-iterating soft equalization for 2D intersymbol interference. , 2013, , .		2
43	Two-dimensional cyclic codes correcting known error patterns. , 2012, , .		1
44	Noise and interference characterization for MLC flash memories. , 2012, , .		4
45	Weighted-Sum-Rate-Maximizing Linear Transceiver Filters for the K-User MIMO Interference Channel. IEEE Transactions on Communications, 2012, 60, 2776-2783.	7.8	35
46	Parallel LDPC decoder implementation on GPU based on unbalanced memory coalescing. , 2012, , .		18
47	Low-Complexity Iterative Channel Estimation for Turbo Receivers. IEEE Transactions on Communications, 2012, 60, 1182-1187.	7.8	7
48	Easily Computed Lower Bounds on the Information Rate of Intersymbol Interference Channels. IEEE Transactions on Information Theory, 2012, 58, 864-877.	2.4	8
49	Self-Iterating Soft Equalizer. , 2011, , .		0
50	Soft-Decision-Driven Channel Estimation for Pipelined Turbo Receivers. IEEE Transactions on Communications, 2011, 59, 2141-2151.	7.8	5
51	Soft-In Soft-Out DFE and Bi-Directional DFE. IEEE Transactions on Communications, 2011, 59, 2729-2741.	7.8	18
52	The Error-Pattern-Correcting Turbo Equalizer: Spectrum Thinning at High SNRs. IEEE Transactions on Information Theory, 2011, 57, 953-971.	2.4	3
53	Statistical Analysis of Flash Memory Read Data. , 2011, , .		6
54	An Iteratively Decodable Tensor Product Code with Application to Data Storage. IEEE Journal on Selected Areas in Communications, 2010, 28, 228-240.	14.0	4

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55	New Phase-Locked Loop Design: Understanding the Impact of a Phase-Tracking Channel Detector. IEEE Transactions on Magnetics, 2010, 46, 830-836.	2.1	6
56	Error-Pattern-Correcting Cyclic Codes Tailored to a Prescribed Set of Error Cluster Patterns. IEEE Transactions on Information Theory, 2009, 55, 1747-1765.	2.4	9
57	Concatenated Low-Density Parity-Check and BCH Coding System for Magnetic Recording Read Channel With 4 kB Sector Format. IEEE Transactions on Magnetics, 2008, 44, 4784-4789.	2.1	15
58	Reduced-Complexity Soft MIMO Detection Based on Causal and Noncausal Decision Feedback. IEEE Transactions on Signal Processing, 2008, 56, 1178-1187.	5.3	7
59	Constrained Partial Response Receivers for High-Speed Links. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1006-1010.	3.0	4
60	Timing Recovery in Conjunction With Maximum Likelihood Sequence Detection in the Presence of Intersymbol Interference. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2884-2897.	5.4	5
61	Transmitter Precoding with Reduced-Complexity Soft Detection for MIMO Systems. IEEE Transactions on Wireless Communications, 2007, 6, 817-821.	9.2	2
62	Error Probability Bounds for Bit-Interleaved Spaceâ€“Time Trellis Coding Over Block-Fading Channels. IEEE Transactions on Information Theory, 2007, 53, 4285-4292.	2.4	6
63	A New Class of Error-Pattern-Correcting Codes Capable of Handling Multiple Error Occurrences. IEEE Transactions on Magnetics, 2007, 43, 2268-2270.	2.1	5
64	Joint Gain and Timing Recovery With Applications to Magnetic Tape Storage. IEEE Transactions on Magnetics, 2007, 43, 2328-2330.	2.1	3
65	Bit-interleaved space-time trellis coding for frequency selective block fading channels. IEEE Communications Letters, 2006, 10, 40-42.	4.1	2
66	Cyclic redundancy check code based high-rate error-detection code for perpendicular recording. IEEE Transactions on Magnetics, 2006, 42, 1626-1628.	2.1	20
67	Turbo equalization utilizing soft decision feedback. IEEE Transactions on Magnetics, 2005, 41, 2998-3000.	2.1	7
68	Imposing a k constraint in recording systems employing post-Viterbi error correction. IEEE Transactions on Magnetics, 2005, 41, 2995-2997.	2.1	2
69	Turbo Equalization via Constrained-Delay APP Estimation With Decision Feedback. IEEE Transactions on Communications, 2005, 53, 2102-2113.	7.8	14
70	Reconfigurable Readback-Signal Generator Based on a Field-Programmable Gate Array. IEEE Transactions on Magnetics, 2004, 40, 1744-1750.	2.1	15
71	CCK Demodulation via Symbol Decision Feedback Equalizer. IEEE Communications Letters, 2004, 8, 620-622.	4.1	4
72	Alternative structure for computing APPs of the markov source. IEEE Transactions on Information Theory, 2003, 49, 1027-1029.	2.4	0

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73	Single-head/single-track detection in interfering tracks. IEEE Transactions on Magnetics, 2002, 38, 1830-1838.	2.1	20
74	Editorial signal processing for high density storage channels. IEEE Journal on Selected Areas in Communications, 2001, 19, 577-581.	14.0	3
75	Pattern-dependent noise prediction in signal-dependent noise. IEEE Journal on Selected Areas in Communications, 2001, 19, 730-743.	14.0	112
76	A low-density generator matrix interpretation of parallel concatenated single bit parity codes. IEEE Transactions on Magnetics, 2001, 37, 737-741.	2.1	43
77	Modeling the Lorentzian magnetic recording channel with transition noise. IEEE Transactions on Magnetics, 2001, 37, 583-591.	2.1	28
78	Signal space detection for recording channels with jitter noise. IEEE Transactions on Information Theory, 2001, 47, 1153-1165.	2.4	1
79	Detection signal-to-noise ratio versus bit cell aspect ratio at high areal densities. IEEE Transactions on Magnetics, 2001, 37, 1157-1167.	2.1	11
80	Signal space detection for DVD optical recording. IEEE Transactions on Magnetics, 2001, 37, 670-675.	2.1	11
81	Multidimensional signal space partitioning using a minimal set of hyperplanes for detecting ISI-corrupted symbols. IEEE Transactions on Communications, 2000, 48, 637-647.	7.8	8
82	Phase error compensation for improved timing recovery. IEEE Transactions on Magnetics, 2000, 36, 2190-2192.	2.1	1
83	Noise-predictive maximum-likelihood method combined with infinite impulse response equalization. IEEE Transactions on Magnetics, 1999, 35, 4538-4543.	2.1	7
84	Low complexity signal space detector for (1,7)-coded partial response channels. IEEE Transactions on Magnetics, 1998, 34, 1928-1930.	2.1	4
85	Design of a rate 6/7 maximum transition run code. IEEE Transactions on Magnetics, 1997, 33, 2749-2751.	2.1	32
86	Architectures for the implementation of a fixed delay tree search detector. IEEE Transactions on Magnetics, 1997, 33, 1116-1124.	2.1	6
87	A systematic approach to signal space detection. IEEE Transactions on Magnetics, 1997, 33, 2737-2739.	2.1	12
88	High data rate detection for 3D-110 channels. IEEE Transactions on Magnetics, 1997, 33, 2806-2808.	2.1	4
89	DC-free run-length-limited codes for magnetic recording. IEEE Transactions on Magnetics, 1997, 33, 868-874.	2.1	3
90	Equalization and detection in storage channels. IEEE Transactions on Magnetics, 1996, 32, 5206-5217.	2.1	8

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91	A high dimensional signal space implementation of FDTS/DF. IEEE Transactions on Magnetics, 1996, 32, 3941-3943.	2.1	20
92	Maximum transition run codes for data storage systems. IEEE Transactions on Magnetics, 1996, 32, 3992-3994.	2.1	113
93	Equalization for maximum likelihood detectors. IEEE Transactions on Magnetics, 1995, 31, 1083-1088.	2.1	157
94	Simplified nonlinear equalizers. IEEE Transactions on Magnetics, 1995, 31, 3051-3053.	2.1	14
95	Constrained-complexity equalizer design for fixed delay tree search with decision feedback. IEEE Transactions on Magnetics, 1994, 30, 2762-2768.	2.1	9
96	Improved equalization for digital recording using nonlinear filtering and error confinement. IEEE Transactions on Magnetics, 1994, 30, 4221-4223.	2.1	9
97	Efficient sequence detection for intersymbol interference channels with run-length constraints. IEEE Transactions on Communications, 1994, 42, 2654-2660.	7.8	25
98	A practical nonlinear model for magnetic recording channels. IEEE Transactions on Magnetics, 1994, 30, 4233-4235.	2.1	7
99	Noise in a thin metallic medium: the connection with nonlinear behaviour. IEEE Transactions on Magnetics, 1988, 24, 2712-2714.	2.1	19
100	Time measurements of amplitude and bit shift in thin metallic media. IEEE Transactions on Magnetics, 1987, 23, 2686-2688.	2.1	7