Chi Wan Sung

List of Publications by Citations

109 papers	1,586 citations	21 h-index	35 g-index
142 ext. papers	1,987 ext. citations	5.4 avg, IF	5.06 L-index

#	Paper	IF	Citations
109	Systematic Codebook Designs for Quantized Beamforming in Correlated MIMO Channels. *IEEE Journal on Selected Areas in Communications*, **2007**, 25, 1091-1100	14.2	162
108	Low complexity subcarrier and power allocation for utility maximization in uplink OFDMA systems. *IEEE Transactions on Wireless Communications*, **2008**, 7, 1667-1675	9.6	96
107	A generalized framework for distributed power control in wireless networks. *IEEE Transactions on Information Theory*, **2005**, 51, 2625-2635	2.8	95
106	A noncooperative power control game for multirate CDMA data networks. *IEEE Transactions on Wireless Communications*, **2003**, 2, 186-194	9.6	94
105	Distributed Power Control for the Downlink of Multi-Cell NOMA Systems. *IEEE Transactions on Wireless Communications*, **2017**, 16, 6207-6220	9.6	63
104	An opportunistic power control algorithm for cellular network. *IEEE/ACM Transactions on Networking*, **2006**, 14, 470-478	3.8	50
103	Power control and rate management for wireless multimedia CDMA systems. *IEEE Transactions on Communications*, **2001**, 49, 1215-1226	6.9	48
102	Subcarrier and Power Allocation for the Downlink of Multicarrier NOMA Systems. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 11833-11847	6.8	46
101	Convergence theorem for a general class of power-control algorithms. *IEEE Transactions on Communications*, **2004**, 52, 1566-1574	6.9	44
100	Log-convexity property of the feasible SIR region in power-controlled cellular systems. *IEEE Communications Letters*, **2002**, 6, 248-249	3.8	40
99	A distributed fixed-step power control algorithm with quantization and active link quality protection. *IEEE Transactions on Vehicular Technology*, **1999**, 48, 553-562	6.8	40
98	Sequential packing algorithm for channel assignment under cochannel and adjacent-channel interference constraint. *IEEE Transactions on Vehicular Technology*, **1997**, 46, 676-686	6.8	37
97	Irregular Fractional Repetition Code Optimization for Heterogeneous Cloud Storage. *IEEE Journal on Selected Areas in Communications*, **2014**, 32, 1048-1060	14.2	31
96	Shift-Invariant Protocol Sequences for the Collision Channel Without Feedback. *IEEE Transactions on Information Theory*, **2009**, 55, 3312-3322	2.8	31
95	Linear Network Coding Strategies for the Multiple Access Relay Channel with Packet Erasures. *IEEE Transactions on Wireless Communications*, **2013**, 12, 218-227	9.6	29
94	A Game-Theoretic Analysis of Uplink Power Control for a Non-Orthogonal Multiple Access System with Two Interfering Cells **2016**,		28
93	Zero-Forcing Oriented Power Minimization for Multi-Cell MISO-NOMA Systems: A Joint User Grouping, Beamforming, and Power Control Perspective. *IEEE Journal on Selected Areas in Communications*, **2020**, 38, 1925-1940	14.2	27

92	Enhanced Power Allocation for Sum Rate Maximization in OFDM-NOMA VLC Systems. *IEEE Photonics Technology Letters*, **2018**, 30, 1218-1221	2.2	25
91	A ZigZag-decodable code with the MDS property for distributed storage systems **2013**,		22
90	Data Dissemination With Side Information and Feedback. *IEEE Transactions on Wireless Communications*, **2014**, 13, 4708-4720	9.6	21
89	Round-robin power control for the weighted sum rate maximisation of wireless networks over multiple interfering links. *European Transactions on Telecommunications*, **2011**, 22, 458-470		21
88	On the stability of distributed sequence adaptation for cellular asynchronous DS-CDMA systems. *IEEE Transactions on Information Theory*, **2003**, 49, 1828-1831	2.8	18
87	A New Zigzag-Decodable Code with Efficient Repair in Wireless Distributed Storage. *IEEE Transactions on Mobile Computing*, **2017**, 16, 1218-1230	4.6	17
86	Achieving high diversity and multiplexing gains in the asynchronous parallel relay network. *Transactions on Emerging Telecommunications Technologies*, **2013**, 24, 232-243	1.9	17
85	Sum Capacity of One-Sided Parallel Gaussian Interference Channels. *IEEE Transactions on Information Theory*, **2008**, 54, 468-472	2.8	17
84	Stability of distributed power and signature sequence control for CDMA Systems-a game-theoretic framework. *IEEE Transactions on Information Theory*, **2006**, 52, 1775-1780	2.8	16
83	Tradeoff between storage cost and repair cost in heterogeneous distributed storage systems. *Transactions on Emerging Telecommunications Technologies*, **2015**, 26, 1201-1211	1.9	15
82	Broadcasting with coded side information **2012**,		15
81	Distributed On-Off Power Control for Amplify-and-Forward Relays with Orthogonal Space-Time Block Code. *IEEE Transactions on Wireless Communications*, **2011**, 10, 1895-1903	9.6	14
80	Design and construction of protocol sequences: Shift invariance and user irrepressibility **2009**,		14
79	Generation of innovative and sparse encoding vectors for broadcast systems with feedback **2011**,		14
78	A Game Theoretic Distributed Algorithm for FeICIC Optimization in LTE-A HetNets. *IEEE/ACM Transactions on Networking*, **2017**, 25, 3500-3513	3.8	12
77	A code design framework for multi-rack distributed storage **2014**,		12
76	Quality-Aware Instantly Decodable Network Coding. *IEEE Transactions on Wireless Communications*, **2014**, 13, 1604-1615	9.6	12
75	A quality-based fixed-step power control algorithm with adaptive target threshold. *IEEE Transactions on Vehicular Technology*, **2000**, 49, 1430-1439	6.8	12

74	The convergence of an asynchronous cooperative algorithm for distributed power control in cellular systems. *IEEE Transactions on Vehicular Technology*, **1999**, 48, 563-570	6.8	12
73	Coding and Bounds for Channel Estimation in Visible Light Communications and Positioning. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 34-44	14.2	11
72	Broadcast repair for wireless distributed storage systems **2015**,		10
71	A Monte-Carlo approach for ghost avoidance in the Ms. Pac-Man game **2010**,		10
70	Optimal Phase Control for Equal-Gain Transmission in MIMO Systems With Scalar Quantization: Complexity and Algorithms. *IEEE Transactions on Information Theory*, **2010**, 56, 3343-3355	2.8	10
69	Optimal Coding and Allocation for Perfect Secrecy in Multiple Clouds. *IEEE Transactions on Information Forensics and Security*, **2016**, 11, 388-399	8	9
68	Linear Network Coding for Erasure Broadcast Channel With Feedback: Complexity and Algorithms. *IEEE Transactions on Information Theory*, **2016**, 62, 2493-2503	2.8	9
67	Double iterative waterfilling for sum rate maximization in multicarrier NOMA systems **2017**,		9
66	On the Sparsity of a Linear Network Code for Broadcast Systems with Feedback **2011**,		9
65	Performance of a Cooperative Algorithm for power control in cellular systems with a time-varying link gain matrix. *Wireless Networks*, **2000**, 6, 429-439	2.5	9
64	Fuzzy layer selection method in hierarchical cellular systems. *IEEE Transactions on Vehicular Technology*, **1999**, 48, 1840-1849	6.8	9
63	BER analysis for interfering visible light communication systems **2016**,		9
62	A Zigzag-Decodable Ramp Secret Sharing Scheme. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 1906-1916	8	8
61	Capacity region of the linear four-node half-duplex wireless relay network. *IEEE Communications Letters*, **2009**, 13, 224-226	3.8	8
60	Channel assignment and layer selection in hierarchical cellular system with fuzzy control. *IEEE Transactions on Vehicular Technology*, **2001**, 50, 657-663	6.8	8
59	Heuristic algorithms for binary sequence assignment in DS-CDMA systems		8
58	Optimal User Pairing in Cache-Based NOMA Systems with Index Coding **2019**,		7
57	A Monte-Carlo approach for the endgame of Ms. Pac-Man **2011**,		7

56	Fair Resource Allocation for the Gaussian Broadcast Channel with ISI. *IEEE Transactions on Communications*, **2009**, 57, 1381-1389	6.9	7
55	BER analysis and power control for interfering visible light communication systems. *Optik*, **2017**, 151, 98-109	2.5	6
54	Diamond relay network under Rayleigh fading: On-off power control and outage-capacity bound **2010**,		6
53	A distributed on-off amplify-and-forward protocol for the fading parallel relay channel. *IEEE Communications Letters*, **2009**, 13, 643-645	3.8	6
52	Zigzag Decodable codes: Linear-time erasure codes with applications to data storage. *Journal of Computer and System Sciences*, **2017**, 89, 190-208	1	5
51	Multi-Rack Distributed Data Storage Networks. *IEEE Transactions on Information Theory*, **2019**, 65, 6072-6088	7.9	5
50	Power control for coordinated NOMA downlink with cell-edge users **2018**,		5
49	Scheduling and Network Coding for Relay-Aided Wireless Broadcast: Optimality and Heuristic. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 674-687	6.8	5
48	Achieving the Outage Capacity of the Diamond Relay Network to Within One Bit and Even Less. *IEEE Transactions on Vehicular Technology*, **2011**, 60, 4088-4093	6.8	5
47	Repair topology design for distributed storage systems **2012**,		5
46	Transmitter cooperation by recycling dirty paper **2008**,		5
45	Analysis of fade margins for soft and hard handoffs in cellular CDMA systems. *IEEE Transactions on Wireless Communications*, **2003**, 2, 431-435	9.6	5
44	Characterization of SINR Region for Multiple Interfering Multicast in Power-Controlled Systems. *IEEE Transactions on Communications*, **2019**, 67, 165-175	6.9	5
43	Optimal Power Allocation for the Downlink of Cache-aided NOMA Systems **2018**,		5
42	Coded caching in partially cooperative D2D communication networks **2017**,		4
41	Linear programming bounds for storage codes **2013**,		4
40	A Layered Decomposition Framework for Resource Allocation in Multiuser Communications. *IEEE Transactions on Vehicular Technology*, **2011**, 60, 729-733	6.8	4
39	Fuzzy layer selection method in hierarchical cellular systems		4

38	Rate Allocation for Cooperative Transmission in Parallel Channels **2007**,		4
37	Robust convergence of low-data rate-distributed controllers. *IEEE Transactions on Automatic Control*, **2004**, 49, 82-87	5.9	4
36	Joint optimization on inter-cell interference management and user attachment in LTE-A HetNets **2015**,		3
35	Distributed Power Allocation for the Downlink of a Two-Cell MISO-NOMA System **2018**,		3
34	Linear programming bounds for robust locally repairable storage codes **2014**,		3
33	The fundamental theorem of distributed storage systems revisited **2014**,		3
32	A cross-layer design of network coded retransmissions in wireless relay channels **2011**,		3
31	Analysis of (1+1) evolutionary algorithm and randomized local search with memory. *Evolutionary Computation*, **2011**, 19, 287-323	4.3	3
30	Optimal price decremental strategy for Dutch auctions. *Communications in Information and Systems*, **2002**, 2, 411-434	0.8	3
29	An Incremental Learning Based Edge Caching System: From Modeling to Evaluation. *IEEE Access*, **2020**, 8, 12499-12509	3.5	2
28	Amplify-and-modulo for Gaussian two-way relay channel **2012**,		2
27	A power control algorithm for the sum rate maximization of wireless networks **2009**,		2
26	Achieving log-utility fairness in CDMA systems via majorization theory. *IEEE Communications Letters*, **2009**, 13, 625-627	3.8	2
25	User unsuppressible protocol sequences for collision channel without feedback **2008**,		2
24	On the analysis of the (1+1) evolutionary algorithm with short-term memory **2008**,		2
23	Fair Rate Allocation in Some Gaussian Multiaccess Channels **2006**,		2
22	Storage and Computation: A Tradeoff in Secure Distributed Computing **2020**,		2
21	Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI. *IEEE Internet of Things Journal*, **2021**, 8, 11305-11319	10.7	2

20	Coding for uncoordinated multiple access in visible light positioning systems **2016**,		2
19	Code Rate Maximization of Cooperative Caching in Ultra-Dense Networks **2019**,		2
18	. *IEEE Transactions on Aerospace and Electronic Systems*, **2019**, 55, 2822-2835	3.7	1
17	Network-coded retransmissions in wireless demodulate-and-forward relay channels. *Eurasip Journal on Wireless Communications and Networking*, **2013**, 2013,	3.2	1
16	Locally repairable codes over a network **2014**,		1
15	Minimization of Storage Cost in Distributed Storage Systems with Repair Consideration **2011**,		1
14	Rate Allocation for Cooperative Orthogonal-Division Channels with Dirty-Paper Coding. *IEEE Transactions on Communications*, **2010**, 58, 2949-2959	6.9	1
13	Iterative Waterfilling for Parallel Gaussian Interference Channels **2006**,		1
12	Opportunistic power control for throughput maximization in mobile cellular systems **2004**,		1
11	On energy efficiency and network connectivity of mobile ad hoc networks		1
10	An optimal phase control algorithm for MISO systems with finite feedback **2005**,		1
9	High-Dimensional Superposition NOMA and its User Pairing Strategy. *IEEE Transactions on Wireless Communications*, **2021**, 20, 3800-3814	9.6	1
8	Cooperative Caching for Ultra-Dense Fog-RANs: Information Optimality and Hypergraph Coloring. *IEEE Transactions on Communications*, **2021**, 69, 3652-3663	6.9	1
7	Lattice-Superposition NOMA for Near-Far Users **2019**,		1
6	Capacity of Wireless Distributed Storage Systems With Broadcast Repair. *IEEE Transactions on Communications*, **2019**, 67, 1004-1017	6.9	1
5	Proportional Fair Scheduling for Downlink mmWave Multi-User MISO-NOMA Systems. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	0
4	Corrections to A Game Theoretic Distributed Algorithm for FeICIC Optimization in LTE-A HetNets *IEEE/ACM Transactions on Networking*, **2018**, 26, 1033-1033	3.8	
3	Throughput analysis of one-dimensional vehicular ad hoc networks. *International Journal of Systems, Control and Communications*, **2012**, 4, 150	0.5	

2	Distributed Dual Optimization for the Uplink of Multi-Cell NOMA. *IEEE Transactions on Communications*, **2021**, 69, 3135-3146	6.9
1	Joint Computation and Communication Resource Allocation With NOMA and OMA Offloading for Multi-Server Systems in F-RAN. *IEEE Access*, **2022**, 10, 24456-24466	3.5