

# Chi Wan Sung

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Joint Computation and Communication Resource Allocation With NOMA and OMA Offloading for Multi-Server Systems in F-RAN. <i>IEEE Access</i> , <b>2022</b> , 10, 24456-24466	3.5	
108	Proportional Fair Scheduling for Downlink mmWave Multi-User MISO-NOMA Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0
107	Distributed Dual Optimization for the Uplink of Multi-Cell NOMA. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 3135-3146	6.9	
106	High-Dimensional Superposition NOMA and its User Pairing Strategy. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 3800-3814	9.6	1
105	Cooperative Caching for Ultra-Dense Fog-RANs: Information Optimality and Hypergraph Coloring. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 3652-3663	6.9	1
104	Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 11305-11319	10.7	2
103	An Incremental Learning Based Edge Caching System: From Modeling to Evaluation. <i>IEEE Access</i> , <b>2020</b> , 8, 12499-12509	3.5	2
102	Zero-Forcing Oriented Power Minimization for Multi-Cell MISO-NOMA Systems: A Joint User Grouping, Beamforming, and Power Control Perspective. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 1925-1940	14.2	27
101	Storage and Computation: A Tradeoff in Secure Distributed Computing <b>2020</b> ,		2
100	Optimal User Pairing in Cache-Based NOMA Systems with Index Coding <b>2019</b> ,		7
99	Multi-Rack Distributed Data Storage Networks. <i>IEEE Transactions on Information Theory</i> , <b>2019</b> , 65, 6072-6088	6.8	5
98	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2019</b> , 55, 2822-2835	3.7	1
97	Lattice-Superposition NOMA for Near-Far Users <b>2019</b> ,		1
96	Code Rate Maximization of Cooperative Caching in Ultra-Dense Networks <b>2019</b> ,		2
95	Capacity of Wireless Distributed Storage Systems With Broadcast Repair. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 1004-1017	6.9	1
94	Characterization of SINR Region for Multiple Interfering Multicast in Power-Controlled Systems. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 165-175	6.9	5
93	A Zigzag-Decodable Ramp Secret Sharing Scheme. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2018</b> , 13, 1906-1916	8	8

92	Coding and Bounds for Channel Estimation in Visible Light Communications and Positioning. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2018</b> , 36, 34-44	14.2	11
91	Corrections to A Game Theoretic Distributed Algorithm for FeICIC Optimization in LTE-A HetNets□ <i>IEEE/ACM Transactions on Networking</i> , <b>2018</b> , 26, 1033-1033	3.8	
90	Distributed Power Allocation for the Downlink of a Two-Cell MISO-NOMA System <b>2018</b> ,		3
89	Power control for coordinated NOMA downlink with cell-edge users <b>2018</b> ,		5
88	Optimal Power Allocation for the Downlink of Cache-aided NOMA Systems <b>2018</b> ,		5
87	Subcarrier and Power Allocation for the Downlink of Multicarrier NOMA Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 11833-11847	6.8	46
86	Enhanced Power Allocation for Sum Rate Maximization in OFDM-NOMA VLC Systems. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1218-1221	2.2	25
85	Zigzag Decodable codes: Linear-time erasure codes with applications to data storage. <i>Journal of Computer and System Sciences</i> , <b>2017</b> , 89, 190-208	1	5
84	BER analysis and power control for interfering visible light communication systems. <i>Optik</i> , <b>2017</b> , 151, 98-109	2.5	6
83	Distributed Power Control for the Downlink of Multi-Cell NOMA Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 6207-6220	9.6	63
82	A New Zigzag-Decodable Code with Efficient Repair in Wireless Distributed Storage. <i>IEEE Transactions on Mobile Computing</i> , <b>2017</b> , 16, 1218-1230	4.6	17
81	Coded caching in partially cooperative D2D communication networks <b>2017</b> ,		4
80	Double iterative waterfilling for sum rate maximization in multicarrier NOMA systems <b>2017</b> ,		9
79	A Game Theoretic Distributed Algorithm for FeICIC Optimization in LTE-A HetNets. <i>IEEE/ACM Transactions on Networking</i> , <b>2017</b> , 25, 3500-3513	3.8	12
78	Optimal Coding and Allocation for Perfect Secrecy in Multiple Clouds. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2016</b> , 11, 388-399	8	9
77	Linear Network Coding for Erasure Broadcast Channel With Feedback: Complexity and Algorithms. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 2493-2503	2.8	9
76	Coding for uncoordinated multiple access in visible light positioning systems <b>2016</b> ,		2
75	BER analysis for interfering visible light communication systems <b>2016</b> ,		9

74	A Game-Theoretic Analysis of Uplink Power Control for a Non-Orthogonal Multiple Access System with Two Interfering Cells <b>2016</b> ,		28
73	Joint optimization on inter-cell interference management and user attachment in LTE-A HetNets <b>2015</b> ,		3
72	Broadcast repair for wireless distributed storage systems <b>2015</b> ,		10
71	Tradeoff between storage cost and repair cost in heterogeneous distributed storage systems. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2015</b> , 26, 1201-1211	1.9	15
70	Scheduling and Network Coding for Relay-Aided Wireless Broadcast: Optimality and Heuristic. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 674-687	6.8	5
69	Irregular Fractional Repetition Code Optimization for Heterogeneous Cloud Storage. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2014</b> , 32, 1048-1060	14.2	31
68	Data Dissemination With Side Information and Feedback. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 4708-4720	9.6	21
67	A code design framework for multi-rack distributed storage <b>2014</b> ,		12
66	Linear programming bounds for robust locally repairable storage codes <b>2014</b> ,		3
65	The fundamental theorem of distributed storage systems revisited <b>2014</b> ,		3
64	Locally repairable codes over a network <b>2014</b> ,		1
63	Quality-Aware Instantly Decodable Network Coding. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 1604-1615	9.6	12
62	Network-coded retransmissions in wireless demodulate-and-forward relay channels. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2013</b> , 2013,	3.2	1
61	Linear Network Coding Strategies for the Multiple Access Relay Channel with Packet Erasures. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 218-227	9.6	29
60	Achieving high diversity and multiplexing gains in the asynchronous parallel relay network. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2013</b> , 24, 232-243	1.9	17
59	Linear programming bounds for storage codes <b>2013</b> ,		4
58	A ZigZag-decodable code with the MDS property for distributed storage systems <b>2013</b> ,		22
57	Broadcasting with coded side information <b>2012</b> ,		15

56	Amplify-and-modulo for Gaussian two-way relay channel <b>2012</b> ,		2
55	Repair topology design for distributed storage systems <b>2012</b> ,		5
54	Throughput analysis of one-dimensional vehicular ad hoc networks. <i>International Journal of Systems, Control and Communications</i> , <b>2012</b> , 4, 150	0.5	
53	A Layered Decomposition Framework for Resource Allocation in Multiuser Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 729-733	6.8	4
52	Achieving the Outage Capacity of the Diamond Relay Network to Within One Bit and Even Less. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 4088-4093	6.8	5
51	Round-robin power control for the weighted sum rate maximisation of wireless networks over multiple interfering links. <i>European Transactions on Telecommunications</i> , <b>2011</b> , 22, 458-470		21
50	A Monte-Carlo approach for the endgame of Ms. Pac-Man <b>2011</b> ,		7
49	Distributed On-Off Power Control for Amplify-and-Forward Relays with Orthogonal Space-Time Block Code. <i>IEEE Transactions on Wireless Communications</i> , <b>2011</b> , 10, 1895-1903	9.6	14
48	A cross-layer design of network coded retransmissions in wireless relay channels <b>2011</b> ,		3
47	On the Sparsity of a Linear Network Code for Broadcast Systems with Feedback <b>2011</b> ,		9
46	Analysis of (1+1) evolutionary algorithm and randomized local search with memory. <i>Evolutionary Computation</i> , <b>2011</b> , 19, 287-323	4.3	3
45	Generation of innovative and sparse encoding vectors for broadcast systems with feedback <b>2011</b> ,		14
44	Minimization of Storage Cost in Distributed Storage Systems with Repair Consideration <b>2011</b> ,		1
43	Diamond relay network under Rayleigh fading: On-off power control and outage-capacity bound <b>2010</b> ,		6
42	A Monte-Carlo approach for ghost avoidance in the Ms. Pac-Man game <b>2010</b> ,		10
41	Rate Allocation for Cooperative Orthogonal-Division Channels with Dirty-Paper Coding. <i>IEEE Transactions on Communications</i> , <b>2010</b> , 58, 2949-2959	6.9	1
40	Optimal Phase Control for Equal-Gain Transmission in MIMO Systems With Scalar Quantization: Complexity and Algorithms. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 3343-3355	2.8	10
39	Design and construction of protocol sequences: Shift invariance and user irrepressibility <b>2009</b> ,		14

38	Shift-Invariant Protocol Sequences for the Collision Channel Without Feedback. <i>IEEE Transactions on Information Theory</i> , <b>2009</b> , 55, 3312-3322	2.8	31
37	Fair Resource Allocation for the Gaussian Broadcast Channel with ISI. <i>IEEE Transactions on Communications</i> , <b>2009</b> , 57, 1381-1389	6.9	7
36	A power control algorithm for the sum rate maximization of wireless networks <b>2009</b> ,		2
35	Capacity region of the linear four-node half-duplex wireless relay network. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 224-226	3.8	8
34	A distributed on-off amplify-and-forward protocol for the fading parallel relay channel. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 643-645	3.8	6
33	Achieving log-utility fairness in CDMA systems via majorization theory. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 625-627	3.8	2
32	Sum Capacity of One-Sided Parallel Gaussian Interference Channels. <i>IEEE Transactions on Information Theory</i> , <b>2008</b> , 54, 468-472	2.8	17
31	Low complexity subcarrier and power allocation for utility maximization in uplink OFDMA systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 1667-1675	9.6	96
30	User unsuppressible protocol sequences for collision channel without feedback <b>2008</b> ,		2
29	On the analysis of the (1+1) evolutionary algorithm with short-term memory <b>2008</b> ,		2
28	Transmitter cooperation by recycling dirty paper <b>2008</b> ,		5
27	Systematic Codebook Designs for Quantized Beamforming in Correlated MIMO Channels. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2007</b> , 25, 1091-1100	14.2	162
26	Rate Allocation for Cooperative Transmission in Parallel Channels <b>2007</b> ,		4
25	Stability of distributed power and signature sequence control for CDMA Systems-a game-theoretic framework. <i>IEEE Transactions on Information Theory</i> , <b>2006</b> , 52, 1775-1780	2.8	16
24	Iterative Waterfilling for Parallel Gaussian Interference Channels <b>2006</b> ,		1
23	Fair Rate Allocation in Some Gaussian Multiaccess Channels <b>2006</b> ,		2
22	An opportunistic power control algorithm for cellular network. <i>IEEE/ACM Transactions on Networking</i> , <b>2006</b> , 14, 470-478	3.8	50
21	A generalized framework for distributed power control in wireless networks. <i>IEEE Transactions on Information Theory</i> , <b>2005</b> , 51, 2625-2635	2.8	95

20	An optimal phase control algorithm for MISO systems with finite feedback <b>2005</b> ,		1
19	Opportunistic power control for throughput maximization in mobile cellular systems <b>2004</b> ,		1
18	Convergence theorem for a general class of power-control algorithms. <i>IEEE Transactions on Communications</i> , <b>2004</b> , 52, 1566-1574	6.9	44
17	Robust convergence of low-data rate-distributed controllers. <i>IEEE Transactions on Automatic Control</i> , <b>2004</b> , 49, 82-87	5.9	4
16	On the stability of distributed sequence adaptation for cellular asynchronous DS-CDMA systems. <i>IEEE Transactions on Information Theory</i> , <b>2003</b> , 49, 1828-1831	2.8	18
15	A noncooperative power control game for multirate CDMA data networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2003</b> , 2, 186-194	9.6	94
14	Analysis of fade margins for soft and hard handoffs in cellular CDMA systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2003</b> , 2, 431-435	9.6	5
13	Log-convexity property of the feasible SIR region in power-controlled cellular systems. <i>IEEE Communications Letters</i> , <b>2002</b> , 6, 248-249	3.8	40
12	Optimal price decremental strategy for Dutch auctions. <i>Communications in Information and Systems</i> , <b>2002</b> , 2, 411-434	0.8	3
11	Channel assignment and layer selection in hierarchical cellular system with fuzzy control. <i>IEEE Transactions on Vehicular Technology</i> , <b>2001</b> , 50, 657-663	6.8	8
10	Power control and rate management for wireless multimedia CDMA systems. <i>IEEE Transactions on Communications</i> , <b>2001</b> , 49, 1215-1226	6.9	48
9	A quality-based fixed-step power control algorithm with adaptive target threshold. <i>IEEE Transactions on Vehicular Technology</i> , <b>2000</b> , 49, 1430-1439	6.8	12
8	Performance of a Cooperative Algorithm for power control in cellular systems with a time-varying link gain matrix. <i>Wireless Networks</i> , <b>2000</b> , 6, 429-439	2.5	9
7	A distributed fixed-step power control algorithm with quantization and active link quality protection. <i>IEEE Transactions on Vehicular Technology</i> , <b>1999</b> , 48, 553-562	6.8	40
6	The convergence of an asynchronous cooperative algorithm for distributed power control in cellular systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>1999</b> , 48, 563-570	6.8	12
5	Fuzzy layer selection method in hierarchical cellular systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>1999</b> , 48, 1840-1849	6.8	9
4	Sequential packing algorithm for channel assignment under cochannel and adjacent-channel interference constraint. <i>IEEE Transactions on Vehicular Technology</i> , <b>1997</b> , 46, 676-686	6.8	37
3	Fuzzy layer selection method in hierarchical cellular systems		4

2	On energy efficiency and network connectivity of mobile ad hoc networks	1
1	Heuristic algorithms for binary sequence assignment in DS-CDMA systems	8