

Chi Wan Sung

List of Publications by Year in descending order

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142
papers

2,298
citations

304743

22
h-index

276875

41
g-index

142
all docs

142
docs citations

142
times ranked

1521
citing authors

#	ARTICLE	IF	CITATIONS
1	Convergence of Iterative Waterfilling Algorithm for Gaussian Interference Channels. IEEE Journal on Selected Areas in Communications, 2007, 25, 1091-1100.	14.0	222
2	A Generalized Framework for Distributed Power Control in Wireless Networks. IEEE Transactions on Information Theory, 2005, 51, 2625-2635.	2.4	134
3	A noncooperative power control game for multirate CDMA data networks. IEEE Transactions on Wireless Communications, 2003, 2, 186-194.	9.2	124
4	Low complexity subcarrier and power allocation for utility maximization in uplink OFDMA systems. IEEE Transactions on Wireless Communications, 2008, 7, 1667-1675.	9.2	114
5	Distributed Power Control for the Downlink of Multi-Cell NOMA Systems. IEEE Transactions on Wireless Communications, 2017, 16, 6207-6220.	9.2	87
6	Subcarrier and Power Allocation for the Downlink of Multicarrier NOMA Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 11833-11847.	6.3	76
7	A distributed fixed-step power control algorithm with quantization and active link quality protection. IEEE Transactions on Vehicular Technology, 1999, 48, 553-562.	6.3	71
8	An opportunistic power control algorithm for cellular network. IEEE/ACM Transactions on Networking, 2006, 14, 470-478.	3.8	69
9	Convergence Theorem for a General Class of Power-Control Algorithms. IEEE Transactions on Communications, 2004, 52, 1566-1574.	7.8	61
10	Power control and rate management for wireless multimedia CDMA systems. IEEE Transactions on Communications, 2001, 49, 1215-1226.	7.8	58
11	Log-convexity property of the feasible SIR region in power-controlled cellular systems. IEEE Communications Letters, 2002, 6, 248-249.	4.1	55
12	Sequential packing algorithm for channel assignment under cochannel and adjacent-channel interference constraint. IEEE Transactions on Vehicular Technology, 1997, 46, 676-686.	6.3	49
13	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.	14.0	49
14	Enhanced Power Allocation for Sum Rate Maximization in OFDM-NOMA VLC Systems. IEEE Photonics Technology Letters, 2018, 30, 1218-1221.	2.5	44
15	Shift-Invariant Protocol Sequences for the Collision Channel Without Feedback. IEEE Transactions on Information Theory, 2009, 55, 3312-3322.	2.4	43
16	Linear Network Coding Strategies for the Multiple Access Relay Channel with Packet Erasures. IEEE Transactions on Wireless Communications, 2013, 12, 218-227.	9.2	35
17	Irregular Fractional Repetition Code Optimization for Heterogeneous Cloud Storage. IEEE Journal on Selected Areas in Communications, 2014, 32, 1048-1060.	14.0	35
18	A ZigZag-decodable code with the MDS property for distributed storage systems. , 2013, , .		33

#	ARTICLE	IF	CITATIONS
19	A Game-Theoretic Analysis of Uplink Power Control for a Non-Orthogonal Multiple Access System with Two Interfering Cells. , 2016, , .		30
20	On the stability of distributed sequence adaptation for cellular asynchronous DS-CDMA systems. IEEE Transactions on Information Theory, 2003, 49, 1828-1831.	2.4	29
21	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.	1.2	29
22	Data Dissemination With Side Information and Feedback. IEEE Transactions on Wireless Communications, 2014, 13, 4708-4720.	9.2	29
23	The convergence of an asynchronous cooperative algorithm for distributed power control in cellular systems. IEEE Transactions on Vehicular Technology, 1999, 48, 563-570.	6.3	26
24	A New Zigzag-Decodable Code with Efficient Repair in Wireless Distributed Storage. IEEE Transactions on Mobile Computing, 2017, 16, 1218-1230.	5.8	25
25	Stability of distributed power and signature sequence control for CDMA Systems-a game-theoretic framework. IEEE Transactions on Information Theory, 2006, 52, 1775-1780.	2.4	22
26	Design and construction of protocol sequences: Shift invariance and user irrepressibility. , 2009, , .		21
27	A quality-based fixed-step power control algorithm with adaptive target threshold. IEEE Transactions on Vehicular Technology, 2000, 49, 1430-1439.	6.3	20
28	Broadcasting with coded side information. , 2012, , .		20
29	Tradeoff between storage cost and repair cost in heterogeneous distributed storage systems. Transactions on Emerging Telecommunications Technologies, 2015, 26, 1201-1211.	3.9	19
30	A Game Theoretic Distributed Algorithm for FeCIC Optimization in LTE-A HetNets. IEEE/ACM Transactions on Networking, 2017, 25, 3500-3513.	3.8	19
31	Achieving high diversity and multiplexing gains in the asynchronous parallel relay network. Transactions on Emerging Telecommunications Technologies, 2013, 24, 232-243.	3.9	18
32	Sum Capacity of One-Sided Parallel Gaussian Interference Channels. IEEE Transactions on Information Theory, 2008, 54, 468-472.	2.4	17
33	Quality-Aware Instantly Decodable Network Coding. IEEE Transactions on Wireless Communications, 2014, 13, 1604-1615.	9.2	17
34	Generation of innovative and sparse encoding vectors for broadcast systems with feedback. , 2011, , .		16
35	Fuzzy layer selection method in hierarchical cellular systems. IEEE Transactions on Vehicular Technology, 1999, 48, 1840-1849.	6.3	15
36	Title is missing!. Wireless Networks, 2000, 6, 429-439.	3.0	15

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37	A code design framework for multi-rack distributed storage. , 2014, , .		15
38	BER analysis for interfering visible light communication systems. , 2016, , .		15
39	Optimal User Pairing in Cache-Based NOMA Systems with Index Coding. , 2019, , .		15
40	A Monte-Carlo approach for ghost avoidance in the Ms. Pac-Man game. , 2010, , .		14
41	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.	9.2	14
42	Coding and Bounds for Channel Estimation in Visible Light Communications and Positioning. IEEE Journal on Selected Areas in Communications, 2018, 36, 34-44.	14.0	14
43	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.	2.4	13
44	Double iterative waterfilling for sum rate maximization in multicarrier NOMA systems. , 2017, , .		13
45	Channel assignment and layer selection in hierarchical cellular system with fuzzy control. IEEE Transactions on Vehicular Technology, 2001, 50, 657-663.	6.3	12
46	On energy efficiency and network connectivity of mobile ad hoc networks. , 0, , .		12
47	Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI. IEEE Internet of Things Journal, 2021, 8, 11305-11319.	8.7	12
48	Power control for multirate multimedia CDMA systems. , 1999, , .		11
49	Heuristic algorithms for binary sequence assignment in DS-CDMA systems. , 0, , .		11
50	A Monte-Carlo approach for the endgame of Ms. Pac-Man. , 2011, , .		11
51	On the Sparsity of a Linear Network Code for Broadcast Systems with Feedback. , 2011, , .		11
52	Linear Network Coding for Erasure Broadcast Channel With Feedback: Complexity and Algorithms. IEEE Transactions on Information Theory, 2016, 62, 2493-2503.	2.4	11
53	Broadcast repair for wireless distributed storage systems. , 2015, , .		10
54	Optimal Coding and Allocation for Perfect Secrecy in Multiple Clouds. IEEE Transactions on Information Forensics and Security, 2016, 11, 388-399.	6.9	10

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55	A Zigzag-Decodable Ramp Secret Sharing Scheme. IEEE Transactions on Information Forensics and Security, 2018, 13, 1906-1916.	6.9	10
56	A simple algorithm for closed-loop transmit diversity with a low-data-rate feedback channel. , 0, , .		9
57	Fair Resource Allocation for the Gaussian Broadcast Channel with ISI. IEEE Transactions on Communications, 2009, 57, 1381-1389.	7.8	9
58	Capacity region of the linear four-node half-duplex wireless relay network. IEEE Communications Letters, 2009, 13, 224-226.	4.1	9
59	Zigzag Decodable codes: Linear-time erasure codes with applications to data storage. Journal of Computer and System Sciences, 2017, 89, 190-208.	1.2	9
60	Coded caching in partially cooperative D2D communication networks. , 2017, , .		9
61	Power control for coordinated NOMA downlink with cell-edge users. , 2018, , .		9
62	Analysis of fade margins for soft and hard handoffs in cellular CDMA systems. IEEE Transactions on Wireless Communications, 2003, 2, 431-435.	9.2	8
63	Scheduling and Network Coding for Relay-Aided Wireless Broadcast: Optimality and Heuristic. IEEE Transactions on Vehicular Technology, 2014, 63, 674-687.	6.3	8
64	Distributed Power Allocation for the Downlink of a Two-Cell MISO-NOMA System. , 2018, , .		8
65	Proportional Fair Scheduling for Downlink mmWave Multi-User MISO-NOMA Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 6308-6321.	6.3	8
66	Fuzzy layer selection method in hierarchical cellular systems. , 0, , .		7
67	Robust Convergence of Low-Data Rate-Distributed Controllers. IEEE Transactions on Automatic Control, 2004, 49, 82-87.	5.7	7
68	An optimal phase control algorithm for MISO systems with finite feedback. , 2005, , .		7
69	Rate Allocation for Cooperative Transmission in Parallel Channels. , 2007, , .		7
70	Diamond relay network under Rayleigh fading: On-off power control and outage-capacity bound. , 2010, , .		7
71	Minimization of Storage Cost in Distributed Storage Systems with Repair Consideration. , 2011, , .		7
72	BER analysis and power control for interfering visible light communication systems. Optik, 2017, 151, 98-109.	2.9	7

#	ARTICLE	IF	CITATIONS
73	Transmitter cooperation by recycling dirty paper. , 2008, , .		6
74	A distributed on-off amplify-and-forward protocol for the fading parallel relay channel. IEEE Communications Letters, 2009, 13, 643-645.	4.1	6
75	Analysis of (1+1) Evolutionary Algorithm and Randomized Local Search with Memory. Evolutionary Computation, 2011, 19, 287-323.	3.0	6
76	Optimal Power Allocation for the Downlink of Cache-aided NOMA Systems. , 2018, , .		6
77	Multi-Rack Distributed Data Storage Networks. IEEE Transactions on Information Theory, 2019, 65, 6072-6088.	2.4	6
78	Lattice-Superposition NOMA for Near-Far Users. , 2019, , .		6
79	Opportunistic power control for throughput maximization in mobile cellular systems. , 2004, , .		5
80	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.	6.3	5
81	Repair topology design for distributed storage systems. , 2012, , .		5
82	Characterization of SINR Region for Multiple Interfering Multicast in Power-Controlled Systems. IEEE Transactions on Communications, 2019, 67, 165-175.	7.8	5
83	Cooperative Caching for Ultra-Dense Fog-RANs: Information Optimality and Hypergraph Coloring. IEEE Transactions on Communications, 2021, 69, 3652-3663.	7.8	5
84	Distributed sequence adaptation for capacity maximization of DS-CDMA systems. , 0, , .		4
85	Kalman-filter-based predictive location management for PCS networks. , 0, , .		4
86	Performance evaluation of highway mobile infostation networks. , 0, , .		4
87	Fair Rate Allocation in Some Gaussian Multiaccess Channels. , 2006, , .		4
88	A Layered Decomposition Framework for Resource Allocation in Multiuser Communications. IEEE Transactions on Vehicular Technology, 2011, 60, 729-733.	6.3	4
89	Linear programming bounds for storage codes. , 2013, , .		4
90	Joint optimization on inter-cell interference management and user attachment in LTE-A HetNets. , 2015, , .		4

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91	Coding for uncoordinated multiple access in visible light positioning systems. , 2016, , .		4
92	An Incremental Learning Based Edge Caching System: From Modeling to Evaluation. IEEE Access, 2020, 8, 12499-12509.	4.2	4
93	Joint Computation and Communication Resource Allocation With NOMA and OMA Offloading for Multi-Server Systems in F-RAN. IEEE Access, 2022, 10, 24456-24466.	4.2	4
94	An adaptive fixed-step power control algorithm based on link quality measure. , 0, , .		3
95	Sequence adaptation for interference reduction and capacity maximization in DS-CDMA systems. , 0, , .		3
96	An opportunistic power control algorithm with fairness. , 2005, , .		3
97	Iterative Waterfilling for Parallel Gaussian Interference Channels. , 2006, , .		3
98	User unsuppressible protocol sequences for collision channel without feedback. , 2008, , .		3
99	A cross-layer design of network coded retransmissions in wireless relay channels. , 2011, , .		3
100	Linear programming bounds for robust locally repairable storage codes. , 2014, , .		3
101	The fundamental theorem of distributed storage systems revisited. , 2014, , .		3
102	Context-aware wireless broadcast for next generation cellular networks. , 2014, , .		3
103	Locally repairable codes over a network. , 2014, , .		3
104	Distributed Enhanced Inter-Cell Interference Coordination (eICIC) in LTE-Advanced HetNets: A Potential Game Approach. , 2015, , .		3
105	Zigzag-Division Multiple Access for Wireless Networks With Long and Heterogeneous Delays. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2822-2835.	4.7	3
106	Code Rate Maximization of Cooperative Caching in Ultra-Dense Networks. , 2019, , .		3
107	Capacity of Wireless Distributed Storage Systems With Broadcast Repair. IEEE Transactions on Communications, 2019, 67, 1004-1017.	7.8	3
108	Distributed Dual Optimization for the Uplink of Multi-Cell NOMA. IEEE Transactions on Communications, 2021, 69, 3135-3146.	7.8	3

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109	Optimal price decremental strategy for Dutch auctions. Communications in Information and Systems, 2002, 2, 411-434.	0.5	3
110	Evaluation on the stability of discrete power control algorithms. , 0, , .		2
111	On the analysis of the (1+1) evolutionary algorithm with short-term memory. , 2008, , .		2
112	A power control algorithm for the sum rate maximization of wireless networks. , 2009, , .		2
113	Achieving log-utility fairness in CDMA systems via majorization theory. IEEE Communications Letters, 2009, 13, 625-627.	4.1	2
114	Amplify-and-modulo for Gaussian two-way relay channel. , 2012, , .		2
115	Three-level storage and nested MDS codes for perfect secrecy in multiple clouds. , 2014, , .		2
116	Storage and Computation: A Tradeoff in Secure Distributed Computing. , 2020, , .		2
117	A Linear-Time Grouping Algorithm for F-RANs with Index Coding and Cache-Aided NOMA. , 2021, , .		2
118	High-Dimensional Superposition NOMA and its User Pairing Strategy. IEEE Transactions on Wireless Communications, 2021, 20, 3800-3814.	9.2	2
119	A distributed fixed-step power control algorithm for mobile cellular systems. , 0, , .		2
120	Sequence adaptation for cellular systems. , 0, , .		1
121	Multi-objective power control and signature sequence adaptation for synchronous cdma systems - a game-theoretic viewpoint. , 2003, , .		1
122	Opportunistic Power Control with Rate Adaptation for Video Conferencing Services. , 2006, , .		1
123	A transmission scheme for wireless network with receiver cooperation. , 2009, , .		1
124	Rate Allocation for Cooperative Orthogonal-Division Channels with Dirty-Paper Coding. IEEE Transactions on Communications, 2010, 58, 2949-2959.	7.8	1
125	An iterative routing algorithm for energy minimization in coded wireless networks. , 2011, , .		1
126	Optimal scheduling with network coding for relay-aided wireless broadcast. , 2012, , .		1

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127	Network-coded retransmissions in wireless demodulate-and-forward relay channels. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	1
128	Uncoordinated multiple access schemes for visible light communications and positioning. , 2016, , .		1
129	Maximally recoverable codes: Connections to generic network coding and maximal matching. , 2017, , .		1
130	Combinational Code for Channel Estimation in Visible Light Communications and Positioning. , 2018, , .		1
131	Composing Algorithm Portfolio with Problem Set of Unknown Distribution. , 2020, , .		1
132	A generic method to compose an algorithm portfolio with a problem set of unknown distribution. Memetic Computing, 0, , .	4.0	1
133	HRaft: Adaptive Erasure Coded Data Maintenance for Consensus in Distributed Networks. , 2022, , .		1
134	Channel assignment and layer selection in hierarchical cellular system with fuzzy control. , 1999, , .		0
135	Convergence theorem for a general class of power control algorithms. , 0, , .		0
136	A framework for opportunistic power control - convergence and applications. , 0, , .		0
137	The multiuser Gaussian parallel relay network. , 2008, , .		0
138	The Capacity Region of Two-way Collision Networks. , 2008, , .		0
139	To decode or to amplify: Mix and match for the two-way two-relay network. , 2008, , .		0
140	Resource Allocation for Wireless Multi-Carrier Network with Receiver Cooperation. , 2010, , .		0
141	Throughput analysis of one-dimensional vehicular ad hoc networks. International Journal of Systems, Control and Communications, 2012, 4, 150.	0.3	0
142	Corrections to "A Game Theoretic Distributed Algorithm for FeCIC Optimization in LTE-A HetNets". IEEE/ACM Transactions on Networking, 2018, 26, 1033-1033.	3.8	0