Wing Shing Wong

List of Publications by Year
in descending order

109 papers	2,291 citations	430442 18 h-index	243296 44 g-index
109 all docs	109 docs citations	109 times ranked	881 citing authors

#	Article	IF	Citations
1	Systems with finite communication bandwidth constraints. II. Stabilization with limited information feedback. IEEE Transactions on Automatic Control, 1999, 44, 1049-1053.	3.6	725
2	Systems with finite communication bandwidth constraints. I. State estimation problems. IEEE Transactions on Automatic Control, 1997, 42, 1294-1299.	3.6	427
3	A noncooperative power control game for multirate CDMA data networks. IEEE Transactions on Wireless Communications, 2003, 2, 186-194.	6.1	124
4	A distributed fixed-step power control algorithm with quantization and active link quality protection. IEEE Transactions on Vehicular Technology, 1999, 48, 553-562.	3.9	71
5	Convergence Theorem for a General Class of Power-Control Algorithms. IEEE Transactions on Communications, 2004, 52, 1566-1574.	4.9	61
6	Power control and rate management for wireless multimedia CDMA systems. IEEE Transactions on Communications, 2001, 49, 1215-1226.	4.9	58
7	Sequential packing algorithm for channel assignment under cochannel and adjacent-channel interference constraint. IEEE Transactions on Vehicular Technology, 1997, 46, 676-686.	3.9	49
8	New Protocol Sequences for Random-Access Channels Without Feedback. IEEE Transactions on Information Theory, 2007, 53, 2060-2071.	1.5	46
9	Shift-Invariant Protocol Sequences for the Collision Channel Without Feedback. IEEE Transactions on Information Theory, 2009, 55, 3312-3322.	1.5	43
10	Construction and Applications of CRT Sequences. IEEE Transactions on Information Theory, 2010, 56, 5780-5795.	1.5	29
11	A General Upper Bound on the Size of Constant-Weight Conflict-Avoiding Codes. IEEE Transactions on Information Theory, 2010, 56, 3265-3276.	1.5	28
12	Safety-Message Broadcast in Vehicular Ad Hoc Networks Based on Protocol Sequences. IEEE Transactions on Vehicular Technology, 2014, 63, 1467-1479.	3.9	28
13	The convergence of an asynchronous cooperative algorithm for distributed power control in cellular systems. IEEE Transactions on Vehicular Technology, 1999, 48, 563-570.	3.9	26
14	Feedback Stabilization of Uncertain Networked Control Systems Over Delayed and Fading Channels. IEEE Transactions on Control of Network Systems, 2021, 8, 260-268.	2.4	24
15	Design and construction of protocol sequences: Shift invariance and user irrepressibility. , 2009, , .		21
16	A quality-based fixed-step power control algorithm with adaptive target threshold. IEEE Transactions on Vehicular Technology, 2000, 49, 1430-1439.	3.9	20
17	Distributed Power Control for Time Varying Systems: Performance and Convergence Analysis. IEEE Transactions on Vehicular Technology, 2005, 54, 1896-1904.	3.9	19
18	Bandwidth allocation for wireless multimedia systems with most regular sequences. IEEE Transactions on Wireless Communications, 2005, 4, 635-645.	6.1	19

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19	Protocol Sequences for the Multiple-Packet Reception Channel Without Feedback. IEEE Transactions on Communications, 2016, 64, 1687-1698.	4.9	19
20	Measurement and analysis of the indoor UWB channel. , 2003, , .		18
21	Transmission Sequence Design and Allocation for Wide-Area Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 869-878.	3.9	18
22	Delay-Dependent Algebraic Riccati Equation to Stabilization of Networked Control Systems: Continuous-Time Case. IEEE Transactions on Cybernetics, 2018, 48, 2783-2794.	6.2	18
23	Resilient Platoon Control of Vehicular Cyber Physical Systems Under DoS Attacks and Multiple Disturbances. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10945-10956.	4.7	18
24	A tight asymptotic bound on the size of constant-weight conflict-avoiding codes. Designs, Codes, and Cryptography, 2010, 57, 1-14.	1.0	16
25	BER analysis for interfering visible light communication systems. , 2016, , .		15
26	A contention-free mobility management scheme based on probabilistic paging. IEEE Transactions on Vehicular Technology, 2001, 50, 48-58.	3.9	14
27	Constructions of Robust Protocol Sequences for Wireless Sensor and Ad hoc Networks. IEEE Transactions on Vehicular Technology, 2008, 57, 3053-3063.	3.9	14
28	Distributed power balancing in cellular systems using limited control-data flow. IEEE Transactions on Vehicular Technology, 1997, 46, 247-252.	3.9	12
29	On Channel Hopping Sequences With Full Rendezvous Diversity for Cognitive Radio Networks. IEEE Wireless Communications Letters, 2018, 7, 574-577.	3.2	12
30	Delay-Constrained Input-Queued Switch. IEEE Journal on Selected Areas in Communications, 2018, 36, 2464-2474.	9.7	12
31	Power control for multirate multimedia CDMA systems. , 1999, , .		11
32	CRT Sequences With Applications to Collision Channels Allowing Successive Interference Cancellation. IEEE Transactions on Information Theory, 2018, 64, 2910-2923.	1.5	11
33	Delay-Constrained Topology-Transparent Distributed Scheduling for MANETs. IEEE Transactions on Vehicular Technology, 2021, 70, 1083-1088.	3.9	11
34	Strongly Conflict-Avoiding Codes. SIAM Journal on Discrete Mathematics, 2011, 25, 1035-1053.	0.4	10
35	Completely Irrepressible Sequences for the Asynchronous Collision Channel Without Feedback. IEEE Transactions on Vehicular Technology, 2011, 60, 1859-1866.	3.9	9
36	Exact Non-Gaussian Interference Model for Fading Channels. IEEE Transactions on Wireless Communications, 2013, 12, 168-179.	6.1	9

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37	Protocol sequences for mobile ad hoc networks. , 2013, , .		9
38	Generalized p -Persistent CSMA for Asynchronous Multiple-Packet Reception. IEEE Transactions on Communications, 2019, 67, 6966-6979.	4.9	9
39	A dynamic location area assignment algorithm for mobile cellular systems. , 0, , .		8
40	Sequence-Based Unicast in Wireless Sensor Networks. IEEE Transactions on Communications, 2020, 68, 429-444.	4.9	8
41	Time Synchronization Attack and Countermeasure for Multisystem Scheduling in Remote Estimation. IEEE Transactions on Automatic Control, 2021, 66, 916-923.	3.6	8
42	State estimation with finite communication bandwidth constraints. , 0, , .		7
43	Robust Convergence of Low-Data Rate-Distributed Controllers. IEEE Transactions on Automatic Control, 2004, 49, 82-87.	3.6	7
44	Completely Irrepressible Sequences for Multiple-Packet Reception. IEEE Transactions on Vehicular Technology, 2016, 65, 6803-6809.	3.9	7
45	The Global Packing Number of a Fat-Tree Network. IEEE Transactions on Information Theory, 2017, 63, 5327-5335.	1.5	7
46	Learning-Based Control Policy and Regret Analysis for Online Quadratic Optimization With Asymmetric Information Structure. IEEE Transactions on Cybernetics, 2022, 52, 4797-4810.	6.2	7
47	A Stochastic Approximation Approach to the Power-Control Problem. IEEE Transactions on Communications, 2007, 55, 878-886.	4.9	6
48	On pairwise shift-invariant protocol sequences. IEEE Communications Letters, 2009, 13, 453-455.	2.5	6
49	Binary Sequences for Multiple Access Collision Channel: Identification and Synchronization. IEEE Transactions on Communications, 2014, 62, 667-675.	4.9	6
50	Output cluster synchronization of heterogeneous linear multi-agent systems. , 2015, , .		6
51	Cluster synchronization of coupled systems with nonidentical linear dynamics. International Journal of Robust and Nonlinear Control, 2017, 27, 1462-1479.	2.1	6
52	A probabilistic model for intelligent Web crawlers. , 0, , .		5
53	A stochastic approximation approach to the robust power control problem. , 0, , .		5
54	Constructions and Throughput Analyses of Protocol Sequences With Adjustable Duty Factor for Collision Channels Without Feedback. IEEE Transactions on Communications, 2016, 64, 4736-4748.	4.9	5

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55	Improved Power of Two Choices for Fat-Tree Routing. IEEE Transactions on Network and Service Management, 2018, 15, 1706-1719.	3.2	5
56	Localizability With Range-Difference Measurements: Numerical Computation and Error Bound Analysis. IEEE/ACM Transactions on Networking, 2022, 30, 2117-2130.	2.6	5
57	A hybrid Bloom filter location update algorithm for wireless cellular systems. , 0, , .		4
58	Multi-Group Coexistence in License-Exempt Networks without Information Exchange. , 2007, , .		4
59	Cross-Layer Link Scheduling for End-to-End Throughput Maximization in Wireless Ad Hoc Networks. , 2007, , .		4
60	Power Control for Non-Gaussian Interference. IEEE Transactions on Wireless Communications, 2011, 10, 2660-2669.	6.1	4
61	An energy-aware reliable deterministic broadcast protocol for wireless sensor networks. , 2014, , .		4
62	Gittins index based control policy for a class of pursuitâ€evasion problems. IET Control Theory and Applications, 2018, 12, 110-118.	1.2	4
63	On Stability Condition of Wireless Networked Control Systems under Joint Design of Control Policy and Network Scheduling Policy. , 2018, , .		4
64	Multichannel Conflict-Avoiding Codes of Weights Three and Four. IEEE Transactions on Information Theory, 2021, 67, 3557-3568.	1.5	4
65	Control and estimation problems in mobile communication systems. , 0, , .		3
66	An adaptive fixed-step power control algorithm based on link quality measure. , 0, , .		3
67	Constrained state estimation for systems with finite communication bandwidth. , 0, , .		3
68	User unsuppressible protocol sequences for collision channel without feedback. , 2008, , .		3
69	Construction of short protocol sequences with worst-case throughput guarantee. , 2010, , .		3
70	Optimal strongly conflict-avoiding codes of even length and weight three. Designs, Codes, and Cryptography, 2016, 79, 367-382.	1.0	3
71	The zero-error capacity of a collision channel with successive interference cancellation. , 2017, , .		3
72	Protocol Sequences With Carrier Sensing for Wireless Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 905-916.	5.5	3

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73	New CRT sequence sets for a collision channel without feedback. Wireless Networks, 2019, 25, 1697-1709.	2.0	3
74	Optimal price decremental strategy for Dutch auctions. Communications in Information and Systems, 2002, 2, 411-434.	0.3	3
75	Integrated stabilisation policy over multipath routing‐enabled network. IET Control Theory and Applications, 2020, 14, 3312-3319.	1.2	3
76	Power control for non-Gaussian interference. , 2009, , .		2
77	Concavity of the Feasible Signal-to-Noise Ratio Region in Power Control Problems. IEEE Transactions on Information Theory, 2011, 57, 2143-2150.	1.5	2
78	Application of protocol sequences in wireless networked control systems. , 2014, , .		2
79	An asynchronous load balancing scheme for multi-server systems. , 2016, , .		2
80	Partially user-irrepressible sequence sets and conflict-avoiding codes. Designs, Codes, and Cryptography, 2016, 78, 679-691.	1.0	2
81	On delay‐dependent algebraic Riccati equation. IET Control Theory and Applications, 2017, 11, 2506-2513.	1.2	2
82	Achieving Zero-Packet-Loss Throughput 1 for a Collision Channel Without Feedback and With Arbitrary Time Offsets. IEEE Transactions on Information Theory, 2020, 66, 2269-2279.	1.5	2
83	A distributed fixed-step power control algorithm for mobile cellular systems. , 0, , .		2
84	Coder-estimator sequence for power control. , 1997, , .		1
85	A Novel Timing Jitter Robust UWB Impulse Radio System. , 0, , .		1
86	The Design and Analysis of Protocol Sequences for Robust Wireless Accessing. , 2007, , .		1
87	Invariant distributions of linear systems under finite communication bandwidth feedback. , 2007, , .		1
88	Optimized anti-collision techniques in RFID systems. , 2007, , .		1
89	Protocol sequence based wireless media access control in networked control systems. , 2012, , .		1
90	Distributed load balancing in a multiple server system by shift-invariant protocol sequences. , 2013, , .		1

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91	Cooperative control of linear systems with choice actions. , 2013, , .		1
92	Protocol-sequence-based media-access control with successive interference cancellation (invited) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7		1
93	Formation control for a string of interconnected second-order systems via target feedback. Journal of the Franklin Institute, 2019, 356, 8521-8541.	1.9	1
94	Protocol Sequences for Asynchronous Multiple Access With Physical-Layer Network Coding. IEEE Wireless Communications Letters, 2019, 8, 980-983.	3.2	1
95	Schedule Sequence Design for Broadcast in Multi-Channel Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 4767-4783.	3.9	1
96	A Distributed Unicast Scheme Based on Schedule Sequences in Ad Hoc Networks. , 2018, , .		1
97	Location update by binary cutting of ID. , 0, , .		0
98	A dynamic scheduling algorithm and admission strategy for multimedia traffic in broadband wireless network. (Part II: Performance and tight bound). , 0, , .		0
99	Convergence theorem for a general class of power control algorithms. , 0, , .		0
100	Performance analysis of the sample and compare receiver schemes for indoor high speed UWB system. , 0, , .		0
101	Channel allocation for multirate MC-CDMA systems with the most regular binary sequence. , 0, , .		0
102	A distributed fixed-step power control algorithm for time-varying systems. , 0, , .		0
103	Resource Sharing in the Most Regular Scheduling: Deterministic Performance and Guarantee. , 2006, , .		0
104	Power Control and Maximum Flows of Wireless Lattice Networks. , 2007, , .		0
105	User-detectable sequences for the collision channel without feedback. , 2010, , .		0
106	Coordinated optimal target realization for linear systems allowing choice-based actions. Optimal Control Applications and Methods, 2016, 37, 1074-1084.	1.3	0
107	Forwarding and Optical Indices in an All-Optical BCube Networks. , 2018, , .		0
108	CRT Sequences for Medium Access Control. , 2019, , .		0

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109	Sequence-Based Schemes for Broadcast and Unicast under Frequency Division Duplex. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 376-383.	0.2	0