

Jean-Francois Chamberland

List of Publications by Year in descending order

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92
papers

2,216
citations

430874

18
h-index

315739

38
g-index

92
all docs

92
docs citations

92
times ranked

1109
citing authors

#	ARTICLE	IF	CITATIONS
1	Decentralized detection in sensor networks. IEEE Transactions on Signal Processing, 2003, 51, 407-416.	5.3	434
2	Asymptotic Results for Decentralized Detection in Power Constrained Wireless Sensor Networks. IEEE Journal on Selected Areas in Communications, 2004, 22, 1007-1015.	14.0	229
3	Wireless Sensors in Distributed Detection Applications. IEEE Signal Processing Magazine, 2007, 24, 16-25.	5.6	222
4	A Coded Compressed Sensing Scheme for Unsourced Multiple Access. IEEE Transactions on Information Theory, 2020, 66, 6509-6533.	2.4	98
5	Resource Allocation and Quality of Service Evaluation for Wireless Communication Systems Using Fluid Models. IEEE Transactions on Information Theory, 2007, 53, 1767-1777.	2.4	92
6	How Dense Should a Sensor Network Be for Detection With Correlated Observations?. IEEE Transactions on Information Theory, 2006, 52, 5099-5106.	2.4	91
7	A user-independent serial interference cancellation based coding scheme for the unsourced random access Gaussian channel. , 2017, , .		60
8	On the effective capacities of multiple-antenna Gaussian channels. , 2008, , .		57
9	Polar Coding and Random Spreading for Unsourced Multiple Access. , 2020, , .		54
10	A User-Independent Successive Interference Cancellation Based Coding Scheme for the Unsourced Random Access Gaussian Channel. IEEE Transactions on Communications, 2019, 67, 8258-8272.	7.8	49
11	Quality of Service Analysis for Wireless User-Cooperation Networks. IEEE Transactions on Information Theory, 2007, 53, 3833-3842.	2.4	46
12	Intervention in Gene Regulatory Networks via a Stationary Mean-First-Passage-Time Control Policy. IEEE Transactions on Biomedical Engineering, 2008, 55, 2319-2331.	4.2	46
13	A Joint Graph Based Coding Scheme for the Unsourced Random Access Gaussian Channel. , 2019, , .		44
14	On Real-Time Status Updates over Symbol Erasure Channels. , 2017, , .		41
15	Optimal Intervention in Asynchronous Genetic Regulatory Networks. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 412-423.	10.8	40
16	Optimal Intervention Strategies for Cyclic Therapeutic Methods. IEEE Transactions on Biomedical Engineering, 2009, 56, 281-291.	4.2	36
17	A Coupled Compressive Sensing Scheme for Unsourced Multiple Access. , 2018, , .		35
18	Energy-Efficient Power Allocation for Delay-Sensitive Multimedia Traffic Over Wireless Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 2038-2047.	6.3	34

#	ARTICLE	IF	CITATIONS
19	Decentralized dynamic power control for cellular CDMA systems. IEEE Transactions on Wireless Communications, 2003, 2, 549-559.	9.2	32
20	Performance analysis of wireless hybrid-ARQ systems with delay-sensitive traffic. IEEE Transactions on Communications, 2010, 58, 1262-1272.	7.8	32
21	Optimal Constrained Stationary Intervention in Gene Regulatory Networks. Eurasip Journal on Bioinformatics and Systems Biology, 2008, 2008, 1-10.	1.4	31
22	Intervention in Context-Sensitive Probabilistic Boolean Networks Revisited. Eurasip Journal on Bioinformatics and Systems Biology, 2009, 2009, 1-13.	1.4	30
23	Unsources Random Access With Coded Compressed Sensing: Integrating AMP and Belief Propagation. IEEE Transactions on Information Theory, 2022, 68, 2384-2409.	2.4	29
24	Queueing Analysis of a Butterfly Network for Comparing Network Coding to Classical Routing. IEEE Transactions on Information Theory, 2010, 56, 1890-1908.	2.4	24
25	Asynchronous Neighbor Discovery Using Coupled Compressive Sensing. , 2019, , .		21
26	On Approximate Message Passing for Unsourced Access with Coded Compressed Sensing. , 2020, , .		20
27	LDPC Codes with Soft Interference Cancellation for Uncoordinated Unsourced Multiple Access. , 2021, , .		19
28	Latency Analysis for Distributed Coded Storage Systems. IEEE Transactions on Information Theory, 2019, 65, 4683-4698.	2.4	17
29	Recent Advances in Intervention in Markovian Regulatory Networks. Current Genomics, 2009, 10, 463-477.	1.6	16
30	Code-Rate Selection, Queueing Behavior, and the Correlated Erasure Channel. IEEE Transactions on Information Theory, 2013, 59, 397-407.	2.4	12
31	Joint Subcarrier and Antenna State Selection for Cognitive Heterogeneous Networks With Reconfigurable Antennas. IEEE Transactions on Communications, 2015, 63, 4015-4025.	7.8	11
32	An investigation of geolocation-aware beamforming algorithms for swarming UAVs. , 2017, , .		11
33	An Enhanced Decoding Algorithm for Coded Compressed Sensing. , 2020, , .		11
34	Real-Time Status Updates With Perfect Feedback Over Erasure Channels. IEEE Transactions on Communications, 2020, 68, 5363-5374.	7.8	10
35	Detection in Sensor Networks. , 0, , 117-148.		9
36	Coded Demixing for Unsourced Random Access. IEEE Transactions on Signal Processing, 2022, 70, 2972-2984.	5.3	9

#	ARTICLE	IF	CITATIONS
37	Delay-Sensitive Communication Over Fading Channels: Queueing Behavior and Code Parameter Selection. IEEE Transactions on Vehicular Technology, 2015, 64, 3957-3970.	6.3	8
38	On the design of universal schemes for massive uncoordinated multiple access. , 2016, , .		8
39	Sparse IDMA: A Joint Graph-Based Coding Scheme for Unsourced Random Access. IEEE Transactions on Communications, 2022, 70, 7124-7133.	7.8	8
40	Cognitive Motion-Dynamic Tethering of a Phased Array to an Android Smartphone. IEEE Transactions on Antennas and Propagation, 2014, 62, 1093-1101.	5.1	7
41	Latency analysis for distributed storage. , 2017, , .		7
42	A Sensor-Driven Analysis of Distributed Direction Finding Systems Based on UAV Swarms. Sensors, 2019, 19, 2659.	3.8	7
43	An Enhanced Decoding Algorithm for Coded Compressed Sensing with Applications to Unsourced Random Access. Sensors, 2022, 22, 676.	3.8	7
44	Cross-Layer Optimization and Information Assurance in Decentralized Detection over Wireless Sensor Networks. , 2006, , .		6
45	First-Passage Time and Large-Deviation Analysis for Erasure Channels With Memory. IEEE Transactions on Information Theory, 2013, 59, 5547-5565.	2.4	6
46	A statistical model for delay domain radio channel parameter affected with extreme values. , 2014, , .		6
47	A Systematic Approach to Incremental Redundancy With Application to Erasure Channels. IEEE Transactions on Communications, 2019, 67, 2620-2631.	7.8	6
48	Approximate Support Recovery using Codes for Unsourced Multiple Access. , 2021, , .		6
49	Queueing analysis of a butterfly network. , 2008, , .		5
50	Value-aware Resource Allocation for Service Guarantees in Networks. , 2010, , .		5
51	Reconfigurable Antennas, Preemptive Switching and Virtual Channel Management. IEEE Transactions on Communications, 2014, 62, 1272-1282.	7.8	5
52	A Hybrid Approach to Coded Compressed Sensing Where Coupling Takes Place Via the Outer Code. , 2021, , .		5
53	Stochastic Binning and Coded Demixing for Unsourced Random Access. , 2021, , .		5
54	Sampling-rate-dependent probabilistic Boolean networks. Journal of Theoretical Biology, 2009, 261, 540-547.	1.7	4

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55	On the queueing behavior of random codes over a gilbert-elliott erasure channel. , 2010, , .		4
56	First-passage time analysis for digital communication over erasure channels with delay-sensitive traffic. , 2010, , .		4
57	Direction of arrival estimation using canonical and crystallographic volumetric element configurations. , 2012, , .		4
58	A Systematic Approach to Incremental Redundancy over Erasure Channels. , 2018, , .		4
59	Learning to Cache and Caching to Learn: Regret Analysis of Caching Algorithms. IEEE/ACM Transactions on Networking, 2022, 30, 18-31.	3.8	4
60	User Cooperation in the Absence of Phase Information at the Transmitters. IEEE Transactions on Information Theory, 2008, 54, 1197-1206.	2.4	3
61	Code rate, queueing behavior and the correlated erasure channel. , 2010, , .		3
62	Value-Aware Resource Allocation for Service Guarantees in Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 960-968.	14.0	3
63	Queueing behavior of the Gilbert-Elliott channel: BCH codes and Poisson arrivals. , 2011, , .		3
64	Occupancy Estimation With Wireless Monitoring Devices and Application-Specific Antennas. IEEE Transactions on Signal Processing, 2017, 65, 2123-2135.	5.3	3
65	Impact of UAV swarm density and heterogeneity on synthetic aperture DoA convergence. , 2017, , .		3
66	Multi-Class Unsourced Random Access via Coded Demixing. , 2021, , .		3
67	On the performance of random block codes over finite-state fading channels. , 2012, , .		2
68	On the Performance of Block Codes Over Finite-State Channels in the Rare-Transition Regime. IEEE Transactions on Communications, 2015, 63, 3974-3990.	7.8	2
69	Impact of Position Errors on Synthetic Aperture DOA Convergence Based on Swarming UAV s. , 2020, , .		2
70	The Rate Region of a Cooperative Scheduling System. , 2007, , .		1
71	Optimal intervention in semi-Markov-based asynchronous genetic regulatory networks. , 2008, , .		1
72	Detecting the presence of a proximate cellular user through distributed femtocell sensing. , 2012, , .		1

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73	On the queueing behavior of Gilbert-Elliott channels in the rare-transition regime. , 2012, , .		1
74	Novel Latency Bounds for Distributed Coded Storage. , 2018, , .		1
75	Localization in Autonomous Vehicles Using a Generalized Inner Product. , 2019, , .		1
76	<title>Decentralized dynamic power control for cellular spread spectrum systems</title>. , 2001, , .		0
77	Optimal policies for control of peers in online multimedia services. , 2007, , .		0
78	Modeling cyclic therapy in gene regulatory networks. , 2008, , .		0
79	Constrained intervention in a cancerous mammalian cell cycle network. , 2008, , .		0
80	Mean first-passage time control policy versus reinforcement-learning control policy in gene regulatory networks. , 2008, , .		0
81	Open-Loop Feedback Intervention: Control of gene regulatory networks with unmeasurable context. , 2009, , .		0
82	Large deviations on empirical service for erasure channels with memory. , 2011, , .		0
83	Exploiting an interplay between norms to analyze scalar quantization schemes. , 2011, , .		0
84	On the effect of reconfigurable antenna radiation patterns on outdoor channel characteristics. , 2013, , .		0
85	An android-controlled direction of arrival system using polarization-reconfigurable antennas. , 2013, , .		0
86	Reconfigurable antennas, preemptive switching and virtual channel management under partial observations. , 2013, , .		0
87	Antenna design for graph inference: Striking a balance between quality and quantity. , 2014, , .		0
88	Impact of reconfigurable polarization angle on parameters of a statistical distribution of coherence time of radio channel. , 2014, , .		0
89	Variability of ellipticity statistic of MIMO indoor radio channels with antenna orientation angle. , 2015, , .		0
90	Impact of reconfigurable polarization parameter on transferred signal power in indoor MIMO channels. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
91	Z0lver: A cross-platform open-source App for transmission line analysis and circuit design. , 2015, , .		0
92	Improvement in Accuracy of Breakpoint Distance Model for Path Loss Prediction. , 2018, , .		0