Themistoklis Charalambous

List of Publications by Year
in descending order

138 papers	2,493 citations	331259 21 h-index	264894 42 g-index
138 all docs	138 docs citations	138 times ranked	1801 citing authors

#	Article	IF	Citations
1	Distributed Event-Triggered Algorithms for Finite-Time Privacy-Preserving Quantized Average Consensus. IEEE Transactions on Control of Network Systems, 2023, 10, 38-50.	2.4	7
2	Machine learning based iterative learning control for non-repetitive time-varying systems. International Journal of Robust and Nonlinear Control, 2023, 33, 4098-4116.	2.1	15
3	Robust Dynamic CPU Resource Provisioning in Virtualized Servers. IEEE Transactions on Services Computing, 2022, 15, 956-969.	3.2	7
4	On Time Headway Selection in Platoons Under the MPF Topology in the Presence of Communication Delays. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8881-8894.	4.7	16
5	Distributed Support Vector Machines Over Dynamic Balanced Directed Networks. , 2022, 6, 758-763.		18
6	Multi-agent consensus with heterogeneous time-varying input and communication delays in digraphs. Automatica, 2022, 135, 109950.	3.0	22
7	Consensus-Based Distributed Estimation in the Presence of Heterogeneous, Time-Invariant Delays. , 2022, 6, 1598-1603.		13
8	Distributed Channel Access for Control Over Unknown Memoryless Communication Channels. IEEE Transactions on Automatic Control, 2022, 67, 6445-6459.	3.6	6
9	Complete Characterization of Gorbunov and Pinsker Nonanticipatory Epsilon Entropy of Multivariate Gaussian Sources: Structural Properties. IEEE Transactions on Information Theory, 2022, 68, 1440-1464.	1.5	1
10	A Survey on Reinforcement Learning-Aided Caching in Heterogeneous Mobile Edge Networks. IEEE Access, 2022, 10, 4380-4413.	2.6	15
11	Bandit-Based Power Control in Full-Duplex Cooperative Relay Networks With Strict-Sense Stationary and Non-Stationary Wireless Communication Channels. IEEE Open Journal of the Communications Society, 2022, 3, 366-378.	4.4	5
12	Power Allocation for Remote Estimation Over Known and Unknown Gilbert-Elliott Channels. Frontiers in Control Engineering, 2022, 3, .	0.4	0
13	Information freshness and packet drop rate interplay in a two-user multi-access channel. Journal of Communications and Networks, 2022, 24, 357-364.	1.8	8
14	Consensus of General Linear Multi-Agent Systems With Heterogeneous Input and Communication Delays. , 2021, 5, 851-856.		28
15	LoLa4SOR: Leveraging Successive Transmissions for Low-Latency Buffer-Aided Opportunistic Relay Networks. IEEE Open Journal of the Communications Society, 2021, 2, 1041-1054.	4.4	5
16	Distributed Detection and Mitigation of Biasing Attacks Over Multi-Agent Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 3465-3477.	4.1	5
17	When Buffer-Aided Relaying Meets Full Duplex and NOMA. IEEE Wireless Communications, 2021, 28, 68-73.	6.6	13
18	Information Freshness and Packet Drop Rate Interplay in a Two-User Multi-Access Channel. , 2021, , .		3

#	Article	IF	Citations
19	Bandit-Based Power Control in Full-Duplex Cooperative Relay Networks. , 2021, , .		3
20	Joint Rate Distortion Function of a Tuple of Correlated Multivariate Gaussian Sources with Individual Fidelity Criteria. , 2021, , .		5
21	Simultaneous Distributed Estimation and Attack Detection/Isolation in Social Networks: Structural Observability, Kronecker-Product Network, and Chi-Square Detector. , 2021, , .		5
22	Analysis Of Contractions In System Graphs: Application To State Estimation. , 2021, , .		2
23	Distributed Alternating Direction Method of Multipliers using Finite-Time Exact Ratio Consensus in Digraphs. , 2021, , .		7
24	Observer-based Control for Vehicle Platooning with a Leader of Varying Velocity. , 2021, , .		3
25	A Priority-Based Distributed Channel Access Mechanism for Control over CAN-like Networks. , 2021, , .		3
26	Event-Triggered Control in Shared Networks: How the Computational Power of Sensors Affects Transmission Priorities. , 2021, , .		0
27	An Asynchronous Approximate Distributed Alternating Direction Method of Multipliers in Digraphs. , 2021, , .		7
28	Towards Robust Onboard Control for Quadrotors via Ultra-Wideband-based Localization. , 2020, , .		5
29	Bandit-Based Relay Selection in Cooperative Networks Over Unknown Stationary Channels. , 2020, , .		6
30	Structural Properties of Nonanticipatory Epsilon Entropy of Multivariate Gaussian Sources. , 2020, , .		8
31	Power Allocation for ARQ Two-Hop Cooperative Networks for Ultra-Reliable Communication. , 2020, , .		1
32	Integrating Broadcasting and NOMA in Full-Duplex Buffer-Aided Opportunistic Relay Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 9157-9162.	3.9	21
33	Power Allocation of Sensor Transmission for Remote Estimation Over an Unknown Gilbert-Elliott Channel. , 2020, , .		3
34	Centralized and Distributed Multi-Region Traffic Flow Control. , 2020, , .		1
35	Reducing time headway in platoons under the MPF topology when using sensors and wireless communications. , 2020, , .		1
36	Privacy-Preserving Event-Triggered Quantized Average Consensus. , 2020, , .		9

#	Article	IF	Citations
37	Throughput-Maximum Energy-Aware Rate Adaptation in W-NCSs over Quasi-Static Fading Channels. , 2020, , .		1
38	Reducing time headway in platoons under the MPF topology in the presence of communication delays. IFAC-PapersOnLine, 2020, 53, 15267-15274.	0.5	6
39	A Distributed Mode Selection Scheme for Full-Duplex Device-to-Device Communication. IEEE Transactions on Vehicular Technology, 2019, 68, 10267-10271.	3.9	4
40	Infinite Horizon Average Cost Dynamic Programming Subject to Total Variation Distance Ambiguity. SIAM Journal on Control and Optimization, 2019, 57, 2843-2872.	1.1	9
41	Hybrid NOMA/OMA With Buffer-Aided Relay Selection in Cooperative Networks. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 524-537.	7.3	54
42	Timer-Based Distributed Channel Access in Networked Control Systems over Known and Unknown Gilbert-Elliott Channels. , 2019, , .		6
43	Privacy-Preserving Average Consensus over Digraphs in the Presence of Time Delays. , 2019, , .		16
44	Robust trajectory planning of autonomous vehicles at intersections with communication impairments. , 2019, , .		16
45	On the Stability of the Foschini-Miljanic Algorithm with Uncertainty over Channel Gains. , 2019, , .		2
46	Generalizations of Nonanticipative Rate Distortion Function to Multivariate Nonstationary Gaussian Autoregressive Processes. , 2019, , .		5
47	Timer-Based Distributed Channel Access for Control Over Unknown Unreliable Time-Varying Communication Channels. , 2019, , .		4
48	Adaptive Coded Modulation for Stabilization of Wireless Networked Control Systems over Binary Erasure Channels. , 2019, , .		2
49	Relay-pair selection in buffer-aided successive opportunistic relaying using a multi-antenna source. Ad Hoc Networks, 2019, 84, 29-41.	3.4	7
50	Finite-Time Nonanticipative Rate Distortion Function for Time-Varying Scalar-Valued Gauss-Markov Sources. , 2018, 2, 175-180.		16
51	A Timer-Based Distributed Channel Access Mechanism in Networked Control Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 652-656.	2.2	11
52	Low-Complexity Buffer-Aided Link Selection With Outdated CSI and Feedback Errors. IEEE Transactions on Communications, 2018, 66, 3694-3706.	4.9	22
53	Location-Aided Pilot Contamination Avoidance for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 2662-2674.	6.1	43
54	Channel Prediction With Location Uncertainty for Ad Hoc Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 349-361.	1.6	4

#	Article	IF	Citations
55	Optimal Scheduling of Downlink Communication for a Multi-Agent System With a Central Observation Post. , 2018, 2, 37-42.		16
56	Laplacian-based matrix design for finite-time average consensus in digraphs. , 2018, , .		0
57	Asymptotic Reverse-Waterfilling Characterization of Nonanticipative Rate Distortion Function of Vector-Valued Gauss-Markov Processes with MSE Distortion. , 2018, , .		2
58	Impact of Communication Frequency on Remote Control of Automated Vehicles. , 2018, , .		3
59	When to stop iterating in digraphs of unknown size? An application to finite-time average consensus. , 2018, , .		4
60	Optimal Estimation via Nonanticipative Rate Distortion Function and Applications to Time-Varying Gauss--Markov Processes. SIAM Journal on Control and Optimization, 2018, 56, 3731-3765.	1.1	23
61	Indoor Navigation of Quadrotors via Ultra-Wideband Wireless Technology. , 2018, , .		5
62	A General Coding Scheme for Signaling Gaussian Processes Over Gaussian Decision Models. , 2018, , .		1
63	Deadline-constrained Bursty Traffic in Random Access Wireless Networks. , 2018, , .		8
64	Delay- and Diversity-Aware Buffer-Aided Relay Selection Policies in Cooperative Networks. IEEE Access, 2018, 6, 73531-73547.	2.6	18
65	Towards a robust traffic admission control in homogeneous urban vehicular networks under QoS constraints. , 2018, , .		2
66	Remote control of automated vehicles over unreliable channels. , 2018, , .		13
67	Power Adaptation in Buffer-Aided Full-Duplex Relay Networks With Statistical CSI. IEEE Transactions on Vehicular Technology, 2018, 67, 7846-7850.	3.9	18
68	Approximation of Markov Processes by Lower Dimensional Processes via Total Variation Metrics. IEEE Transactions on Automatic Control, 2017, 62, 1030-1045.	3.6	4
69	Formation Control of Multi-Agent Systems with Location Uncertainty. , 2017, , 197-215.		0
70	Network traffic flow optimization under performance constraints. Transportation Research Part C: Emerging Technologies, 2017, 83, 120-133.	3.9	25
71	LoCo â€" link: A low-complexity link selection algorithm for delay mitigation in asymmetric two-hop networks. , 2017, , .		3
72	Traffic flow optimization with QoS constrained network admission control * *This research is supported by Chalmersâ€™ initiatives in transport research, the Transport Area of Advance at Chalmers University of Technology and SAFER (Vehicle and Traffic Safety Centre) and by the National Research, Development and Innovation Office of Hungary - NKFIH through grant No. 115694.. IFAC-PapersOnLine, 2017, 50, 5275-5280.	0.5	1

#	Article	IF	Citations
73	Dynamic CPU resource provisioning in virtualized servers using maximum correntropy criterion Kalman filters. , 2017, , .		2
74	Incremental 2D Delaunay triangulation core implementation on FPGA for surface reconstruction via high-level synthesis. , 2017, , .		4
75	On the resource allocation problem in wireless networked control systems. , 2017, , .		17
76	Relay Selection for Buffer-Aided Non-Orthogonal Multiple Access Networks. , 2017, , .		14
77	Minimum Power Scheduling under Rician Fading in Full-Duplex Relay-Assisted D2D Communication. , 2017, , .		6
78	How Variability and Effort Determine Coordination at Large Forces. PLoS ONE, 2016, 11, e0149512.	1.1	4
79	A delay-aware hybrid relay selection policy. , 2016, , .		8
80	Filtering with fidelity for time-varying Gauss-Markov processes. , 2016, , .		9
81	Totally asynchronous distributed estimation of eigenvector centrality in digraphs with application to the PageRank problem. , 2016, , .		9
82	Robust Linear Quadratic Regulator for uncertain systems. , 2016, , .		10
83	Optimal Radio Frequency Energy Harvesting With Limited Energy Arrival Knowledge. IEEE Journal on Selected Areas in Communications, 2016, 34, 3528-3539.	9.7	15
84	Infinite horizon discounted dynamic programming subject to total variation ambiguity on conditional distribution. , 2016, , .		0
85	On the use of fuzzy logic controllers to comply with virtualized application demands in the cloud. , 2016, , .		4
86	Delay- and diversity-aware buffer-aided relay selection policies in cooperative networks. , 2016, , .		16
87	Distributed Finite-Time Computation of Digraph Parameters: Left-Eigenvector, Out-Degree and Spectrum. IEEE Transactions on Control of Network Systems, 2016, 3, 137-148.	2.4	69
88	A Survey on Buffer-Aided Relay Selection. IEEE Communications Surveys and Tutorials, 2016, 18, 1073-1097.	24.8	110
89	Delay-independent stability of cone-invariant monotone systems. , 2015, , .		0
90	On the minimum latency transmission scheduling in wireless networks with power control under SINR constraints. Transactions on Emerging Telecommunications Technologies, 2015, 26, 367-379.	2.6	4

#	Article	IF	Citations
91	Distributed Finite-Time Average Consensus in Digraphs in the Presence of Time Delays. IEEE Transactions on Control of Network Systems, 2015, 2, 370-381.	2.4	85
92	Fast Information Exchange in Proximity-Based Multichannel Wireless Networks. , 2015, , .		0
93	Infinite horizon average cost dynamic programming subject to ambiguity on conditional distribution. , 2015, , .		2
94	Modeling Buffer-Aided Relay Selection in Networks With Direct Transmission Capability. IEEE Communications Letters, 2015, 19, 649-652.	2.5	35
95	Dynamic Programming Subject to Total Variation Distance Ambiguity. SIAM Journal on Control and Optimization, 2015, 53, 2040-2075.	1.1	21
96	A Buffer-Aided Successive Opportunistic Relay Selection Scheme With Power Adaptation and Inter-Relay Interference Cancellation for Cooperative Diversity Systems. IEEE Transactions on Communications, 2015, 63, 1623-1634.	4.9	47
97	Hybrid cooperation through full-duplex opportunistic relaying and max-link relay selection with transmit power adaptation. , 2014, , .		16
98	Precoding decision for full-duplex X-relay channel with Decode-and-Forward. , 2014, , .		0
99	Adaptive Resource Provisioning for Virtualized Servers Using Kalman Filters. ACM Transactions on Autonomous and Adaptive Systems, 2014, 9, 1-35.	0.4	25
100	Average consensus in the presence of dynamically changing directed topologies and time delays. , 2014, , .		6
101	Team optimality conditions of differential decision systems with nonclasssical information structures. , 2014, , .		0
102	Joint relayâ€pair selection for bufferâ€aided successive opportunistic relaying. Transactions on Emerging Telecommunications Technologies, 2014, 25, 823-834.	2.6	21
103	Reduced power expenditure in the minimum latency transmission scheduling problem. , 2014, , .		0
104	Distributed minimum-time weight balancing over digraphs. , 2014, , .		3
105	Average Consensus in the Presence of Delays in Directed Graph Topologies. IEEE Transactions on Automatic Control, 2014, 59, 763-768.	3.6	119
106	Extremum Problems With Total Variation Distance and Their Applications. IEEE Transactions on Automatic Control, 2014, 59, 2353-2368.	3.6	20
107	Optimal Merging Algorithms for Lossless Codes With Generalized Criteria. IEEE Transactions on Information Theory, 2014, 60, 5486-5499.	1.5	0
108	Asymptotic Stability and Decay Rates of Homogeneous Positive Systems With Bounded and Unbounded Delays. SIAM Journal on Control and Optimization, 2014, 52, 2623-2650.	1.1	57

#	Article	IF	Citations
109	Distributed Weight Balancing Over Digraphs. IEEE Transactions on Control of Network Systems, 2014, 1, 190-201.	2.4	49
110	Exponential Stability of Homogeneous Positive Systems of Degree One With Time-Varying Delays. IEEE Transactions on Automatic Control, 2014, 59, 1594-1599.	3.6	117
111	Stability and Performance of Continuous-Time Power Control in Wireless Networks. IEEE Transactions on Automatic Control, 2014, 59, 2012-2023.	3.6	15
112	Approximation of Markov processes by lower dimensional processes. , 2014, , .		1
113	Neighbor Discovery in Multichannel Wireless Clique Networks: An Epidemic Approach. , 2013, , .		4
114	Asymptotic stability and decay rates of positive linear systems with unbounded delays. , 2013, , .		6
115	Decentralised minimum-time average consensus in digraphs. , 2013, , .		9
116	Extremum problems with total variation distance. , 2013, , .		0
117	Buffer-aided successive opportunistic relaying with inter-relay interference cancellation. , 2013, , .		17
118	Asymptotic and exponential stability of general classes of continuous-time power control laws in wireless networks. , 2013, , .		3
119	Power Control in Wireless Ad Hoc Networks: Stability and Convergence Under Uncertainties. Springer Optimization and Its Applications, 2013, , 143-174.	0.6	4
120	Distributed formation of balanced and bistochastic weighted digraphs in multi-agent systems. , 2013, , .		4
121	Dynamic programming with total variational distance uncertainty. , 2012, , .		0
122	Contractive interference functions and rates of convergence of distributed power control laws. , 2012, , .		7
123	Opportunistic relay selection for cooperative networks with buffers. , 2012, , .		0
124	Towards distributed transmission scheduling for wireless ad hoc networks. , 2012, , .		0
125	Contractive Interference Functions and Rates of Convergence of Distributed Power Control Laws. IEEE Transactions on Wireless Communications, 2012, 11, 4494-4502.	6.1	45
126	Medium access control via contention-based distributed power control. , 2012, , .		0

#	Article	IF	Citations
127	Distributed network size estimation and average degree estimation and control in networks isomorphic to directed graphs. , 2012, , .		38
128	Buffer-Aided Relay Selection for Cooperative Diversity Systems without Delay Constraints. IEEE Transactions on Wireless Communications, 2012, 11, 1957-1967.	6.1	319
129	Stability Analysis and Power Optimization for Energy Harvesting Cooperative Networks. IEEE Signal Processing Letters, 2012, 19, 20-23.	2.1	66
130	A Framework to Describe, Analyze and Generate Interactive Motor Behaviors. PLoS ONE, 2012, 7, e49945.	1.1	125
131	Unconditional stability of the Foschiniâ€"Miljanic algorithm. Automatica, 2012, 48, 219-224.	3.0	49
132	Asynchronous coordination of distributed energy resources for the provisioning of ancillary services. , 2011, , .		17
133	Lossless coding with generalized criteria. , 2011, , .		1
134	A min-max framework for CPU resource provisioning in virtualized servers using ℋ<inf>∞</inf> Filters. , 2010, , .		6
135	On the stability of a power control algorithm for wireless networks in the presence of time-varying delays. , 2009, , .		5
136	Self-adaptive and self-configured CPU resource provisioning for virtualized servers using Kalman filters. , 2009, , .		152
137	Transmission Scheduling in Wireless Networks with SINR Constraints. , 2009, , .		4
138	On the stability of the Foschini-Miljanic algorithm with time-delays. , 2008, , .		21