Demosthenis Teneketzis

List of Publications by Year
in descending order

77 papers	2,264 citations	236925 25 h-index	243625 44 g-index
77 all docs	77 docs citations	77 times ranked	1147 citing authors

#	Article	IF	Citations
1	Coordinated Decentralized Protocols for Failure Diagnosis of Discrete Event Systems. Discrete Event Dynamic Systems: Theory and Applications, 2000, 10, 33-86.	1.5	364
2	Decentralized Stochastic Control with Partial History Sharing: A Common Information Approach. IEEE Transactions on Automatic Control, 2013, 58, 1644-1658.	5.7	163
3	Optimal Strategies for Communication and Remote Estimation With an Energy Harvesting Sensor. IEEE Transactions on Automatic Control, 2013, 58, 2246-2260.	5.7	136
4	Diagnosis of Intermittent Faults. Discrete Event Dynamic Systems: Theory and Applications, 2004, 14, 171-202.	1.5	100
5	A Wireless Soil Moisture Smart Sensor Web Using Physics-Based Optimal Control: Concept and Initial Demonstrations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 522-535.	4.9	91
6	Diagnosability of Discrete Event Systems with Modular Structure. Discrete Event Dynamic Systems: Theory and Applications, 2006, 16, 9-37.	1.5	85
7	Optimal Control Strategies in Delayed Sharing Information Structures. IEEE Transactions on Automatic Control, 2011, 56, 1606-1620.	5.7	82
8	On the optimality of the Gittins index rule for multi-armed bandits with multiple plays. Mathematical Methods of Operations Research, 1999, 50, 449-461.	1.0	72
9	On an Optimization Problem in Sensor Selection*. Discrete Event Dynamic Systems: Theory and Applications, 2002, 12, 417-445.	1.5	66
10	Optimal Design of Sequential Real-Time Communication Systems. IEEE Transactions on Information Theory, 2009, 55, 5317-5338.	2.4	66
11	Active Acquisition of Information for Diagnosis and Supervisory Control of Discrete Event Systems. Discrete Event Dynamic Systems: Theory and Applications, 2007, 17, 531-583.	1.5	61
12	The decentralized wald problem. Information and Computation, 1987, 73, 23-44.	0.7	58
13	A POMDP Approach to the Dynamic Defense of Large-Scale Cyber Networks. IEEE Transactions on Information Forensics and Security, 2018, 13, 2490-2505.	6.9	55
14	A Market-Based Approach to Optimal Resource Allocation in Integrated-Services Connection-Oriented Networks. Operations Research, 2002, 50, 603-616.	1.9	49
15	On the Effect of Communication Delays in Failure Diagnosis of Decentralized Discrete Event Systems. Discrete Event Dynamic Systems: Theory and Applications, 2003, 13, 263-289.	1.5	48
16	ON THE OPTIMALITY OF AN INDEX RULE IN MULTICHANNEL ALLOCATION FOR SINGLE-HOP MOBILE NETWORKS WITH MULTIPLE SERVICE CLASSES. Probability in the Engineering and Informational Sciences, 2000, 14, 259-297.	0.8	46
17	Discrete search with multiple sensors. Mathematical Methods of Operations Research, 2004, 60, 1.	1.0	38
18	Dynamic Games With Asymmetric Information: Common Information Based Perfect Bayesian Equilibria and Sequential Decomposition. IEEE Transactions on Automatic Control, 2017, 62, 222-237.	5.7	37

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19	An Externalities-Based Decentralized Optimal Power Allocation Algorithm for Wireless Networks. IEEE/ACM Transactions on Networking, 2009, 17, 1819-1831.	3.8	35
20	On the design of globally optimal communication strategies for real-time noisy communication systems with noisy feedback. IEEE Journal on Selected Areas in Communications, 2008, 26, 580-595.	14.0	30
21	Identifying tractable decentralized control problems on the basis of information structure. , 2008, , .		30
22	Optimal Performance of Networked Control Systems with Nonclassical Information Structures. SIAM Journal on Control and Optimization, 2009, 48, 1377-1404.	2.1	30
23	Optimality of index policies for stochastic scheduling with switching penalties. Journal of Applied Probability, 1992, 29, 957-966.	0.7	29
24	Information Structures, Causality, and Nonsequential Stochastic Control I: Design-Independent Properties. SIAM Journal on Control and Optimization, 1992, 30, 1447-1475.	2.1	28
25	Measurement Scheduling for Soil Moisture Sensing: From Physical Models to Optimal Control. Proceedings of the IEEE, 2010, 98, 1918-1933.	21.3	27
26	Local Public Good Provisioning in Networks: A Nash Implementation Mechanism. IEEE Journal on Selected Areas in Communications, 2012, 30, 2105-2116.	14.0	27
27	An Efficient Game Form for Unicast Service Provisioning. IEEE Transactions on Automatic Control, 2012, 57, 392-404.	5.7	27
28	A game-theoretic approach to decentralized optimal power allocation for cellular networks. Telecommunication Systems, 2011, 47, 65-80.	2.5	26
29	On the Structure of Real-Time Encoding and Decoding Functions in a Multiterminal Communication System. IEEE Transactions on Information Theory, 2011, 57, 6196-6214.	2.4	24
30	Informational incentives for congestion games. , 2017, , .		22
31	A Surrogate Optimization-Based Mechanism for Resource Allocation and Routing in Networks With Strategic Agents. IEEE Transactions on Automatic Control, 2019, 64, 464-479.	5.7	22
32	Optimal Multiserver Stochastic Scheduling of two Interconnected Priority Queues. Advances in Applied Probability, 1994, 26, 258-279.	0.7	21
33	An Efficient Game Form for Multi-Rate Multicast Service Provisioning. IEEE Journal on Selected Areas in Communications, 2012, 30, 2093-2104.	14.0	20
34	Sequential Problems in Decentralized Detection With Communication. IEEE Transactions on Information Theory, 2011, 57, 5410-5435.	2.4	19
35	Dynamic oligopoly games with private Markovian dynamics. , 2015, , .		18
36	Certainty equivalence control with forcing: revisited. Systems and Control Letters, 1989, 13, 405-412.	2.3	17

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37	Optimal stochastic scheduling of forest networks with switching penalties. Advances in Applied Probability, 1994, 26, 474-497.	0.7	14
38	EXPECTED MAKESPAN MINIMIZATION ON IDENTICAL MACHINES IN TWO INTERCONNECTED QUEUES. Probability in the Engineering and Informational Sciences, 2001, 15, 409-443.	0.8	11
39	Optimal contract design for energy procurement. , 2014, , .		11
40	On stochastic dynamic games with delayed sharing information structure. , 2016, , .		11
41	Correction to â€œAn Efficient Game Form for Unicast Service Provisioningâ€•[Feb 12 392-404]. IEEE Transactions on Automatic Control, 2015, 60, 584-585.	5.7	10
42	An Efficient Market Design for Electricity Networks With Strategic Users Possessing Local Information. IEEE Transactions on Control of Network Systems, 2019, 6, 1038-1049.	3.7	10
43	Time-average and asymptotically optimal flow control policies in networks with multiple transmitters. Annals of Operations Research, 1992, 35, 325-355.	4.1	8
44	A pricing methodology for resource allocation and routing in integrated-services networks with quality of service requirements. Mathematical Methods of Operations Research, 2002, 56, 151-167.	1.0	8
45	On globally optimal real-time encoding and decoding strategies in multi-terminal communication systems. , 2008, , .		8
46	Correction to "An Efficient Game Form for Multi-Rate Multicast Service Provisioning". IEEE Journal on Selected Areas in Communications, 2013, 31, 1355-1356.	14.0	8
47	Multidimensional Forward Contracts Under Uncertainty for Electricity Markets. IEEE Transactions on Control of Network Systems, 2017, 4, 511-522.	3.7	8
48	Common Knowledge and Sequential Team Problems. IEEE Transactions on Automatic Control, 2019, 64, 5108-5115.	5.7	8
49	Optimal batch service of a polling system under partial information. Mathematical Methods of Operations Research, 1996, 44, 401-419.	1.0	7
50	An Efficient Dynamic Allocation Mechanism for Security in Networks of Interdependent Strategic Agents. Dynamic Games and Applications, 2019, 9, 914-941.	1.9	7
51	Optimal Stochastic Dynamic Scheduling in Multi-Class Queues with Tardiness and/or Earliness Penalties. Probability in the Engineering and Informational Sciences, 1994, 8, 491-509.	0.8	6
52	Fixed Delay Optimal Joint Source-Channel Coding for Finite-Memory Systems. , 2006, , .		6
53	Optimal Performance of Feedback Control Systems with Limited Communication over Noisy Channels. , 2006, , .		5
54	Communication scheduling and remote estimation with energy harvesting sensor. , 2012, , .		5

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55	A Unified Approach to Dynamic Decision Problems With Asymmetric Information: Nonstrategic Agents. IEEE Transactions on Automatic Control, 2022, 67, 1105-1119.	5.7	5
56	Signaling for decentralized routing in a queueing network. Annals of Operations Research, 2015, , 1.	4.1	4
57	A decentralized mechanism for computing competitive equilibria in deregulated electricity markets. , 2016, , .		4
58	Game Theoretic Approaches to Cyber Security: Challenges, Results, and Open Problems. Lecture Notes in Computer Science, 2019, , 29-53.	1.3	4
59	A simple load balancing problem with decentralized information. Mathematical Methods of Operations Research, 1996, 44, 97-113.	1.0	3
60	An individually rational, budget-balanced mechanism that implements in Nash equilibria the solution of the unicast service provisioning problem. , 2009, , .		3
61	A Sufficient Information Approach to Decentralized Decision Making. , 2018, , .		3
62	Dynamic Information Design: A Simple Problem on Optimal Sequential Information Disclosure. Dynamic Games and Applications, 0, , 1.	1.9	3
63	Dynamic Games Among Teams with Delayed Intra-Team Information Sharing. Dynamic Games and Applications, 0, , 1.	1.9	3
64	Optimal Sequencing in Multiserver Systems. Probability in the Engineering and Informational Sciences, 1996, 10, 377-396.	0.8	2
65	On Partial Order Characterizations of Information Structures. Mathematics of Control, Signals, and Systems, 2000, 13, 277-292.	2.3	2
66	A structural result for delayed sharing information structures. , 2010, , .		2
67	Balancing through signaling in decentralized routing. , 2014, , .		2
68	Electricity market design and implementation in the presence of asymmetrically informed strategic producers and consumers: A surrogate optimization-based mechanism. Energy Economics, 2022, 109, 105929.	12.1	2
69	Further results on the consensus problem. , 1987, , .		1
70	Sensor Scheduling for Multiple Parameters Estimation under Energy Constraint. , 2006, , .		1
71	Consensus in distributed estimation with inconsistent beliefs. , 1984, , .		0
72	Soil Moisture Smart Sensor Web Concept Using Data Assimilation and Optimal Control. , 2007, , .		0

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73	A Soil Moisture Smart Sensor Web using Data Assimilation and Optimal Control: Formulation and First Laboratory Demonstration. , 2008, , .		0
74	A sequential problem in decentralized detection with communication. , 2009, , .		0
75	Correction to â€œSequential Problems in Decentralized Detection With Communicationâ€•[Aug 11 5410-5435]. IEEE Transactions on Information Theory, 2012, 58, 493-493.	2.4	0
76	Economizing the Uneconomic: Markets for Reliable, Sustainable, and Price Efficient Electricity. Sustainability, 2021, 13, 4197.	3.2	0
77	Private Information Compression in Dynamic Games among Teams. , 2021, , .		0