

Serdar Yuksel

List of Publications by Year in descending order

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98
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471371

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all docs

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docs citations

100
times ranked

403
citing authors

#	ARTICLE	IF	CITATIONS
1	Information structures in optimal decentralized control. , 2012, , .		93
2	Stochastic Stability of Event-Triggered Anytime Control. IEEE Transactions on Automatic Control, 2014, 59, 3373-3379.	3.6	62
3	Optimization and Convergence of Observation Channels in Stochastic Control. SIAM Journal on Control and Optimization, 2012, 50, 864-887.	1.1	56
4	Stochastic Stabilization of Noisy Linear Systems With Fixed-Rate Limited Feedback. IEEE Transactions on Automatic Control, 2010, 55, 2847-2853.	3.6	54
5	Random-Time, State-Dependent Stochastic Drift for Markov Chains and Application to Stochastic Stabilization Over Erasure Channels. IEEE Transactions on Automatic Control, 2013, 58, 47-59.	3.6	46
6	Quadratic Multi-Dimensional Signaling Games and Affine Equilibria. IEEE Transactions on Automatic Control, 2017, 62, 605-619.	3.6	39
7	On the Existence of Optimal Policies for a Class of Static and Sequential Dynamic Teams. SIAM Journal on Control and Optimization, 2015, 53, 1681-1712.	1.1	37
8	On Optimal Causal Coding of Partially Observed Markov Sources in Single and Multiterminal Settings. IEEE Transactions on Information Theory, 2013, 59, 424-437.	1.5	33
9	On the Asymptotic Optimality of Finite Approximations to Markov Decision Processes with Borel Spaces. Mathematics of Operations Research, 2017, 42, 945-978.	0.8	30
10	Jointly Optimal LQG Quantization and Control Policies for Multi-Dimensional Systems. IEEE Transactions on Automatic Control, 2014, 59, 1612-1617.	3.6	28
11	Convex Analysis in Decentralized Stochastic Control, Strategic Measures, and Optimal Solutions. SIAM Journal on Control and Optimization, 2017, 55, 1-28.	1.1	28
12	On Optimal Zero-Delay Coding of Vector Markov Sources. IEEE Transactions on Information Theory, 2014, 60, 5975-5991.	1.5	25
13	A Universal Dynamic Program and Refined Existence Results for Decentralized Stochastic Control. SIAM Journal on Control and Optimization, 2020, 58, 2711-2739.	1.1	24
14	Characterization of Information Channels for Asymptotic Mean Stationarity and Stochastic Stability of Nonstationary/Unstable Linear Systems. IEEE Transactions on Information Theory, 2012, 58, 6332-6354.	1.5	22
15	Stabilization of Linear Systems Over Gaussian Networks. IEEE Transactions on Automatic Control, 2014, 59, 2369-2384.	3.6	22
16	Stochastic Stabilization of Partially Observed and Multi-Sensor Systems Driven by Unbounded Noise Under Fixed-Rate Information Constraints. IEEE Transactions on Automatic Control, 2014, 59, 792-798.	3.6	20
17	Near optimality of quantized policies in stochastic control under weak continuity conditions. Journal of Mathematical Analysis and Applications, 2016, 435, 321-337.	0.5	19
18	Asymptotic Optimality and Rates of Convergence of Quantized Stationary Policies in Stochastic Control. IEEE Transactions on Automatic Control, 2015, 60, 553-558.	3.6	17

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19	Stationary and Ergodic Properties of Stochastic NonLinear Systems Controlled over Communication Channels. SIAM Journal on Control and Optimization, 2016, 54, 2844-2871.	1.1	17
20	Finite Model Approximations and Asymptotic Optimality of Quantized Policies in Decentralized Stochastic Control. IEEE Transactions on Automatic Control, 2017, 62, 2360-2373.	3.6	17
21	A Counterexample in Distributed Optimal Sensing and Control. IEEE Transactions on Automatic Control, 2009, 54, 841-844.	3.6	16
22	Weak Feller property of non-linear filters. Systems and Control Letters, 2019, 134, 104512.	1.3	15
23	On Games With Coupled Constraints. IEEE Transactions on Automatic Control, 2015, 60, 358-372.	3.6	14
24	Robustness to Incorrect System Models in Stochastic Control. SIAM Journal on Control and Optimization, 2020, 58, 1144-1182.	1.1	13
25	Optimal Zero Delay Coding of Markov Sources: Stationary and Finite Memory Codes. IEEE Transactions on Information Theory, 2017, , 1-1.	1.5	12
26	On Optimal Coding of Non-Linear Dynamical Systems. IEEE Transactions on Information Theory, 2018, 64, 6816-6829.	1.5	12
27	On optimal policies for control and estimation over a Gaussian relay channel. Automatica, 2013, 49, 2892-2897.	3.0	11
28	Robustness to Incorrect Priors in Partially Observed Stochastic Control. SIAM Journal on Control and Optimization, 2019, 57, 1929-1964.	1.1	11
29	Decentralized Learning for Optimality in Stochastic Dynamic Teams and Games With Local Control and Global State Information. IEEE Transactions on Automatic Control, 2022, 67, 5230-5245.	3.6	11
30	On Stochastic Stability of a Class of non-Markovian Processes and Applications in Quantization. SIAM Journal on Control and Optimization, 2017, 55, 1241-1260.	1.1	10
31	A Note on the Separation of Optimal Quantization and Control Policies in Networked Control. SIAM Journal on Control and Optimization, 2019, 57, 773-782.	1.1	10
32	Asymptotic Optimality of Finite Model Approximations for Partially Observed Markov Decision Processes With Discounted Cost. IEEE Transactions on Automatic Control, 2020, 65, 130-142.	3.6	9
33	Randomized quantization and optimal design with a marginal constraint. , 2013, , .		8
34	Static LQG teams with countably infinite players. , 2013, , .		8
35	Metric and Topological Entropy Bounds for Optimal Coding of Stochastic Dynamical Systems. IEEE Transactions on Automatic Control, 2020, 65, 2466-2479.	3.6	8
36	Optimal Solutions to Infinite-Player Stochastic Teams and Mean-Field Teams. IEEE Transactions on Automatic Control, 2021, 66, 1071-1086.	3.6	8

#	ARTICLE	IF	CITATIONS
37	Power games in MIMO interference systems. , 2009, , .		7
38	Exponential filter stability via Dobrushin's coefficient. Electronic Communications in Probability, 2020, 25, .	0.1	7
39	On the capacity of finite state multiple access channels with asymmetric partial state feedback. , 2009, , .		6
40	Invariance Properties of Controlled Stochastic Nonlinear Systems under Information Constraints. IEEE Transactions on Automatic Control, 2020, , 1-1.	3.6	6
41	Optimal Policies for Convex Symmetric Stochastic Dynamic Teams and their Mean-Field Limit. SIAM Journal on Control and Optimization, 2021, 59, 777-804.	1.1	6
42	On optimal policies for control and estimation over a Gaussian relay channel. , 2011, , .		5
43	Stochastic stabilization of partially observed and multi-sensor systems driven by Gaussian noise under fixed-rate information constraints. , 2012, , .		5
44	On multi-dimensional and noisy quadratic signaling games and affine equilibria. , 2015, , .		5
45	On Rates of Convergence for Markov Chains Under Random Time State Dependent Drift Criteria. IEEE Transactions on Automatic Control, 2016, 61, 145-155.	3.6	5
46	Robustness to Incorrect System Models in Stochastic Control and Application to Data-Driven Learning. , 2018, , .		5
47	Two-Way Gaussian Networks With a Jammer and Decentralized Control. IEEE Transactions on Control of Network Systems, 2020, 7, 446-457.	2.4	5
48	Comparison of Information Structures for Zero-Sum Games and a Partial Converse to Blackwell Ordering in Standard Borel Spaces. SIAM Journal on Control and Optimization, 2021, 59, 1781-1803.	1.1	5
49	Optimal causal quantization of Markov Sources with distortion constraints. , 2008, , .		4
50	Hypothesis Testing Under Subjective Priors and Costs as a Signaling Game. IEEE Transactions on Signal Processing, 2019, 67, 5169-5183.	3.2	4
51	Robustness to Incorrect Priors and Controlled Filter Stability in Partially Observed Stochastic Control. SIAM Journal on Control and Optimization, 2022, 60, 842-870.	1.1	4
52	Stochastic stability of adaptive quantizers for Markov sources. , 2009, , .		3
53	Measure and cost dependent properties of information structures. , 2010, , .		3
54	Approximation of stationary control policies by quantized control in Markov decision processes. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
55	Optimality of Walrand-Varaiya type policies and approximation results for zero delay coding of Markov sources. , 2015, , .		3
56	Finite-state approximations to constrained Markov decision processes with Borel spaces. , 2015, , .		3
57	Finite state approximations of Markov decision processes with general state and action spaces. , 2015, , .		3
58	Witsenhausen's Standard Form Revisited: A General Dynamic Program for Decentralized Stochastic Control and Existence Results. , 2018, , .		3
59	Stochastic Control Approach to Reputation Games. IEEE Transactions on Automatic Control, 2020, 65, 4710-4725.	3.6	3
60	Ergodicity Conditions for Controlled Stochastic Nonlinear Systems under Information Constraints: A Volume Growth Approach. SIAM Journal on Control and Optimization, 2021, 59, 534-560.	1.1	3
61	Zero-Delay Lossy Coding of Linear Vector Markov Sources: Optimality of Stationary Codes and Near Optimality of Finite Memory Codes. IEEE Transactions on Information Theory, 2022, 68, 3474-3488.	1.5	3
62	Quadratic Signaling With Prior Mismatch at an Encoder and Decoder: Equilibria, Continuity, and Robustness Properties. IEEE Transactions on Automatic Control, 2023, 68, 705-720.	3.6	3
63	On optimal causal coding of partially observed Markov sources under classical and non-classical information structures. , 2010, , .		2
64	Stochastic stability and ergodicity of linear Gaussian systems controlled over discrete channels. , 2011, , .		2
65	On Games with Coupled Constraints. , 2012, , .		2
66	Finite-state approximation of Markov decision processes with unbounded costs and Borel spaces. , 2015, , .		2
67	Finite model approximations and asymptotic optimality of quantized policies in decentralized stochastic control. , 2016, , .		2
68	Convex analysis in decentralized stochastic control and strategic measures. , 2016, , .		2
69	Metric and topological entropy bounds on state estimation for stochastic non-linear systems. , 2017, , .		2
70	Distributionally consistent price taking equilibria in stochastic dynamic games. , 2017, , .		2
71	Optimal Stochastic Teams with Infinitely Many Decision Makers and Mean-Field Teams. , 2018, , .		2
72	Signaling Games for Log-Concave Distributions: Number of Bins and Properties of Equilibria. IEEE Transactions on Information Theory, 2022, 68, 1731-1757.	1.5	2

#	ARTICLE	IF	CITATIONS
73	Decentralized Q-learning for weakly acyclic stochastic dynamic games. , 2015, , .		1
74	Continuity and robustness to incorrect priors in estimation and control. , 2016, , .		1
75	Invariance and stationarity in non-linear networked control: Deterministic and stochastic formulations. , 2016, , .		1
76	Asymptotic optimality of finite representations and quantized policies in team problems and Witsenhausen's counterexample. , 2016, , .		1
77	Binary Signaling under Subjective Priors and Costs as a Game. , 2018, , .		1
78	Asymptotic Optimality of Finite Models for Witsenhausen's Counterexample and Beyond. Systems and Control: Foundations and Applications, 2018, , 177-188.	0.1	1
79	Independently Randomized Symmetric Policies are Optimal for Exchangeable Stochastic Teams with Infinitely Many Decision Makers. , 2020, , .		1
80	Information and Communication Complexity of Networked Control Systems. , 2020, , 1-13.		1
81	Robustness to incorrect models and data-driven learning in average-cost optimal stochastic control. Automatica, 2022, 139, 110179.	3.0	1
82	Policy-Dependent and Policy-Independent Static Reduction of Stochastic Dynamic Teams and Games and Fragility of Equivalence Properties. , 2021, , .		1
83	Ergodicity of Controlled Stochastic Nonlinear Systems under Information Constraints: Refined Bounds via Splitting. , 2021, , .		1
84	Continuity Properties of Value Functions in Information Structures for Stochastic Team Problems and Zero-Sum and General Games. , 2021, , .		1
85	Stochastic stabilization of a noisy linear system with a fixed-rate adaptive quantizer. , 2009, , .		0
86	Randomized source coding with limited common randomness. , 2014, , .		0
87	Stationarity and ergodicity of stochastic non-linear systems controlled over communication channels. , 2016, , .		0
88	Optimal Power Allocation for Average Detection Probability Criterion Over Flat Fading Channels. IEEE Transactions on Signal Processing, 2017, 65, 1383-1398.	3.2	0
89	Stochastic stability of non-Markovian processes and adaptive quantizers. , 2017, , .		0
90	Robustness to Incorrect Priors in Infinite Horizon Stochastic Control. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
91	Two-Way Gaussian Channels with an Intelligent Jammer. , 2018, , .		0
92	Robustness to Incorrect Models in Average-Cost Optimal Stochastic Control. , 2019, , .		0
93	Information and Communication Complexity of Networked Control Systems. , 2021, , 1000-1012.		0
94	Investigation of the Effects of Splenectomy on Bone Healing (Experimental Study). Ä°stanbul Medical Journal;, 2021, 22, 45-49.	0.1	0
95	Robustness to Approximations and Model Learning in MDPs and POMDPs. Emergence, Complexity and Computation, 2021, , 166-191.	0.2	0
96	Signaling Games in Higher Dimensions: Geometric Properties of Equilibrium Partitions. , 2021, , .		0
97	Dual Effect, Certainty Equivalence, and Separation Revisited: A Counterexample and a Relaxed Characterization for Optimality. IEEE Transactions on Automatic Control, 2023, 68, 1259-1266.	3.6	0
98	Convergence and Near Optimality of Q-Learning with Finite Memory for Partially Observed Models. , 2021, , .		0