

Serdar Yuksel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

599
citations

13
h-index

21
g-index

100
ext. papers

870
ext. citations

3.3
avg, IF

4.81
L-index

#	Paper	IF	Citations
78	Zero-Delay Lossy Coding of Linear Vector Markov Sources: Optimality of Stationary Codes and Near Optimality of Finite Memory Codes. <i>IEEE Transactions on Information Theory</i> , 2022 , 1-1	2.8	
77	Quadratic Signaling with Prior Mismatch at an Encoder and Decoder: Equilibria, Continuity and Robustness Properties. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	0
76	Robustness to incorrect models and data-driven learning in average-cost optimal stochastic control. <i>Automatica</i> , 2022 , 139, 110179	5.7	
75	Dual Effect, Certainty Equivalence, and Separation Revisited: A Counterexample and a Relaxed Characterization for Optimality. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	
74	Robustness to Incorrect Priors and Controlled Filter Stability in Partially Observed Stochastic Control. <i>SIAM Journal on Control and Optimization</i> , 2022 , 60, 842-870	1.9	0
73	Signaling Games for Log-Concave Distributions: Number of Bins and Properties of Equilibria. <i>IEEE Transactions on Information Theory</i> , 2021 , 1-1	2.8	1
72	Decentralized Learning for Optimality in Stochastic Dynamic Teams and Games with Local Control and Global State Information. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	0
71	Optimal Solutions to Infinite-Player Stochastic Teams and Mean-Field Teams. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1071-1086	5.9	2
70	Ergodicity Conditions for Controlled Stochastic Nonlinear Systems under Information Constraints: A Volume Growth Approach. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 534-560	1.9	0
69	Optimal Policies for Convex Symmetric Stochastic Dynamic Teams and their Mean-Field Limit. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 777-804	1.9	0
68	Comparison of Information Structures for Zero-Sum Games and a Partial Converse to Blackwell Ordering in Standard Borel Spaces. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 1781-1803	1.9	1
67	Robustness to Approximations and Model Learning in MDPs and POMDPs. <i>Emergence, Complexity and Computation</i> , 2021 , 166-191	0.1	
66	Robustness to Incorrect System Models in Stochastic Control. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 1144-1182	1.9	4
65	Metric and Topological Entropy Bounds for Optimal Coding of Stochastic Dynamical Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2466-2479	5.9	5
64	Stochastic Control Approach to Reputation Games. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 4710-4725	5.9	3
63	Exponential filter stability via Dobrushin's coefficient. <i>Electronic Communications in Probability</i> , 2020 , 25,	1	2
62	Invariance Properties of Controlled Stochastic Nonlinear Systems Under Information Constraints. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9	2

61	A Universal Dynamic Program and Refined Existence Results for Decentralized Stochastic Control. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 2711-2739	1.9	7
60	. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 130-142	5.9	3
59	Two-Way Gaussian Networks With a Jammer and Decentralized Control. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 446-457	4	2
58	A Note on the Separation of Optimal Quantization and Control Policies in Networked Control. <i>SIAM Journal on Control and Optimization</i> , 2019 , 57, 773-782	1.9	2
57	Robustness to Incorrect Priors in Partially Observed Stochastic Control. <i>SIAM Journal on Control and Optimization</i> , 2019 , 57, 1929-1964	1.9	6
56	Hypothesis Testing Under Subjective Priors and Costs as a Signaling Game. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 5169-5183	4.8	2
55	Weak Feller property of non-linear filters. <i>Systems and Control Letters</i> , 2019 , 134, 104512	2.4	6
54	. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 6816-6829	2.8	8
53	Asymptotic Optimality of Finite Models for Witsenhausen's Counterexample and Beyond. <i>Systems and Control: Foundations and Applications</i> , 2018 , 177-188	0.3	0
52	Finite Model Approximations in Decentralized Stochastic Control. <i>Systems and Control: Foundations and Applications</i> , 2018 , 159-175	0.3	
51	Optimal Stochastic Teams with Infinitely Many Decision Makers and Mean-Field Teams 2018 ,		1
50	Robustness to Incorrect System Models in Stochastic Control and Application to Data-Driven Learning 2018 ,		3
49	Witsenhausen's Standard Form Revisited: A General Dynamic Program for Decentralized Stochastic Control and Existence Results 2018 ,		1
48	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 605-619	5.9	21
47	Optimal Power Allocation for Average Detection Probability Criterion Over Flat Fading Channels. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 1383-1398	4.8	
46	Convex Analysis in Decentralized Stochastic Control, Strategic Measures, and Optimal Solutions. <i>SIAM Journal on Control and Optimization</i> , 2017 , 55, 1-28	1.9	15
45	On Stochastic Stability of a Class of non-Markovian Processes and Applications in Quantization. <i>SIAM Journal on Control and Optimization</i> , 2017 , 55, 1241-1260	1.9	6
44	On the Asymptotic Optimality of Finite Approximations to Markov Decision Processes with Borel Spaces. <i>Mathematics of Operations Research</i> , 2017 , 42, 945-978	1.5	14

43	. <i>IEEE Transactions on Information Theory</i> , 2017 , 1-1	2.8	8
42	Finite Model Approximations and Asymptotic Optimality of Quantized Policies in Decentralized Stochastic Control. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2360-2373	5.9	8
41	Metric and topological entropy bounds on state estimation for stochastic non-linear systems 2017 ,		2
40	Distributionally consistent price taking equilibria in stochastic dynamic games 2017 ,		2
39	Stationary and Ergodic Properties of Stochastic NonLinear Systems Controlled over Communication Channels. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 2844-2871	1.9	10
38	Near optimality of quantized policies in stochastic control under weak continuity conditions. <i>Journal of Mathematical Analysis and Applications</i> , 2016 , 435, 321-337	1.1	12
37	On Rates of Convergence for Markov Chains Under Random Time State Dependent Drift Criteria. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 145-155	5.9	4
36	Convex analysis in decentralized stochastic control and strategic measures 2016 ,		2
35	Invariance and stationarity in non-linear networked control: Deterministic and stochastic formulations 2016 ,		1
34	On the Existence of Optimal Policies for a Class of Static and Sequential Dynamic Teams. <i>SIAM Journal on Control and Optimization</i> , 2015 , 53, 1681-1712	1.9	18
33	Optimality of Walrand-Varaiya type policies and approximation results for zero delay coding of Markov sources 2015 ,		2
32	Finite-state approximations to constrained Markov decision processes with Borel spaces 2015 ,		2
31	Finite state approximations of Markov decision processes with general state and action spaces 2015 ,		2
30	Decentralized Q-learning for weakly acyclic stochastic dynamic games 2015 ,		1
29	On multi-dimensional and noisy quadratic signaling games and affine equilibria 2015 ,		4
28	Finite-state approximation of Markov decision processes with unbounded costs and Borel spaces 2015 ,		1
27	Asymptotic Optimality and Rates of Convergence of Quantized Stationary Policies in Stochastic Control. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 553-558	5.9	13
26	On Games With Coupled Constraints. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 358-372	5.9	9

25	. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 5975-5991	2.8	17
24	Jointly Optimal LQG Quantization and Control Policies for Multi-Dimensional Systems. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1612-1617	5.9	19
23	Stabilization of Linear Systems Over Gaussian Networks. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2369-2384	5.9	12
22	Stochastic Stabilization of Partially Observed and Multi-Sensor Systems Driven by Unbounded Noise Under Fixed-Rate Information Constraints. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 792-798	5.9	13
21	Stochastic Stability of Event-Triggered Anytime Control. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 3373-3379	5.9	50
20	On optimal policies for control and estimation over a Gaussian relay channel. <i>Automatica</i> , 2013 , 49, 2892-2897	5.9	6
19	Approximation of stationary control policies by quantized control in Markov decision processes 2013 ,		2
18	. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 424-437	2.8	23
17	Random-Time, State-Dependent Stochastic Drift for Markov Chains and Application to Stochastic Stabilization Over Erasure Channels. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 47-59	5.9	35
16	Randomized quantization and optimal design with a marginal constraint 2013 ,		5
15	Static LQG teams with countably infinite players 2013 ,		4
14	. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 6332-6354	2.8	13
13	On Games with Coupled Constraints 2012 ,		2
12	Optimization and Convergence of Observation Channels in Stochastic Control. <i>SIAM Journal on Control and Optimization</i> , 2012 , 50, 864-887	1.9	38
11	Information structures in optimal decentralized control 2012 ,		58
10	Stochastic stabilization of partially observed and multi-sensor systems driven by Gaussian noise under fixed-rate information constraints 2012 ,		5
9	Stochastic stability and ergodicity of linear Gaussian systems controlled over discrete channels 2011 ,		2
8	On optimal policies for control and estimation over a Gaussian relay channel 2011 ,		4

7	On optimal causal coding of partially observed Markov sources under classical and non-classical information structures 2010 ,		2
6	Measure and cost dependent properties of information structures 2010 ,		3
5	Stochastic Stabilization of Noisy Linear Systems With Fixed-Rate Limited Feedback. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2847-2853	5.9	39
4	Power games in MIMO interference systems 2009 ,		7
3	A Counterexample in Distributed Optimal Sensing and Control. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 841-844	5.9	13
2	Stochastic stability of adaptive quantizers for Markov sources 2009 ,		3
1	Optimal causal quantization of Markov Sources with distortion constraints 2008 ,		3