Victoria Kostina

List of Publications by Year
in descending order

56 papers	720 citations	11 h-index	20 g-index
56 all docs	56 docs citations	56 times ranked	316 citing authors

840776

752698

#	Article	IF	Citations
1	Fixed-Length Lossy Compression in the Finite Blocklength Regime. IEEE Transactions on Information Theory, 2012, 58, 3309-3338.	2.4	165
2	Lossy Joint Source-Channel Coding in the Finite Blocklength Regime. IEEE Transactions on Information Theory, 2013, 59, 2545-2575.	2.4	101
3	Rate-Cost Tradeoffs in Control. IEEE Transactions on Automatic Control, 2019, 64, 4525-4540.	5.7	61
4	Variable-Length Compression Allowing Errors. IEEE Transactions on Information Theory, 2015, 61, 4316-4330.	2.4	31
5	A Lower Bound on the Differential Entropy of Log-Concave Random Vectors with Applications. Entropy, 2018, 20, 185.	2.2	27
6	Data Compression With Low Distortion and Finite Blocklength. IEEE Transactions on Information Theory, 2017, 63, 4268-4285.	2.4	24
7	Rate-cost tradeoffs in control. , 2016, , .		22
8	Joint Source-Channel Coding With Feedback. IEEE Transactions on Information Theory, 2017, 63, 3502-3515.	2.4	20
9	Control Over Gaussian Channels With and Without Source–Channel Separation. IEEE Transactions on Automatic Control, 2019, 64, 3690-3705.	5.7	20
10	Nonasymptotic Noisy Lossy Source Coding. IEEE Transactions on Information Theory, 2016, 62, 6111-6123.	2.4	17
11	Exact minimum number of bits to stabilize a linear system. , 2018, , .		15
12	Random Access Channel Coding in the Finite Blocklength Regime. , 2018, , .		14
13	Random Access Channel Coding in the Finite Blocklength Regime. IEEE Transactions on Information Theory, 2021, 67, 2115-2140.	2.4	14
14	Tracking and Control of Gauss–Markov Processes over Packet-Drop Channels with Acknowledgments. IEEE Transactions on Control of Network Systems, 2019, 6, 549-560.	3.7	13
15	A new converse in rate-distortion theory. , 2012, , .		11
16	Coded random access design for constrained outage. , 2017, , .		9
17	Rate-cost tradeoffs in scalar LQG control and tracking with side information. , 2018, , .		9
18	Gaussian Multiple and Random Access Channels: Finite-Blocklength Analysis. IEEE Transactions on Information Theory, 2021, 67, 6983-7009.	2.4	9

#	Article	IF	Citations
19	Fixed-length lossy compression in the finite blocklength regime: Discrete memoryless sources. , 2011, , .		8
20	Feedback Capacity of MIMO Gaussian Channels. , 2021, , .		8
21	Rate-limited control of systems with uncertain gain. , 2016, , .		7
22	Lossless Source Coding in the Point-to-Point, Multiple Access, and Random Access Scenarios. IEEE Transactions on Information Theory, 2020, 66, 6688-6722.	2.4	7
23	Stabilizing Dynamical Systems with Fixed-Rate Feedback using Constrained Quantizers. , 2020, , .		7
24	Optimal Causal Rate-Constrained Sampling for a Class of Continuous Markov Processes. , 2020, , .		7
25	The Minimal Directed Information Needed to Improve the LQG Cost. , 2020, , .		7
26	The rate-distortion function for successive refinement of abstract sources. , 2017, , .		6
27	Optimal Causal Rate-Constrained Sampling of the Wiener Process. , 2019, , .		6
28	Multi-rate control over AWGN channels via analog joint source-channel coding. , 2016, , .		5
29	Successive Refinement of Abstract Sources. IEEE Transactions on Information Theory, 2019, 65, 6385-6398.	2.4	5
30	Lossless Source Coding in the Point-to-Point, Multiple Access, and Random Access Scenarios. , 2019, , .		5
31	Instantaneous SED coding over a DMC. , 2021, , .		5
32	Optimal Causal Rate-Constrained Sampling for a Class of Continuous Markov Processes. IEEE Transactions on Information Theory, 2021, 67, 7876-7890.	2.4	5
33	To code or not to code: Revisited. , 2012, , .		4
34	Real-time Binary Posterior Matching. , 2019, , .		4
35	Fundamental limits of distributed tracking. , 2020, , .		4
36	Error rates of capacity-achieving codes are convex. , 2010, , .		3

#	Article	IF	Citations
37	Fixed-length lossy compression in the finite blocklength regime: Gaussian source. , 2011, , .		3
38	Nonasymptotic noisy lossy source coding. , 2013, , .		3
39	Channels with cost constraints: Strong converse and dispersion. , 2013, , .		3
40	Two-Layer Coded Channel Access With Collision Resolution: Design and Analysis. IEEE Transactions on Wireless Communications, 2020, 19, 7986-7997.	9.2	3
41	Stabilizing a System With an Unbounded Random Gain Using Only Finitely Many Bits. IEEE Transactions on Information Theory, 2021, 67, 2554-2561.	2.4	3
42	Variable-length Feedback Codes with Several Decoding Times for the Gaussian Channel. , 2021, , .		3
43	Optimal Causal Rate-Constrained Sampling of the Wiener Process. IEEE Transactions on Automatic Control, 2022, 67, 1776-1791.	5.7	3
44	When is Shannon's lower bound tight at finite blocklength?. , 2016, , .		2
45	The Dispersion of the Gauss-Markov Source. , 2018, , .		2
46	The Dispersion of the Gaussâ€"Markov Source. IEEE Transactions on Information Theory, 2019, 65, 6355-6384.	2.4	2
47	From Parameter Estimation to Dispersion of Nonstationary Gauss-Markov Processes. , 2019, , .		2
48	Rate loss in the Gaussian CEO problem. , 2019, , .		2
49	The CEO Problem With Inter-Block Memory. IEEE Transactions on Information Theory, 2021, 67, 7752-7768.	2.4	2
50	Stabilizing a System with an Unbounded Random Gain Using Only Finitely Many Bits. , 2018, , .		1
51	Nested Sparse Feedback Codes for Point-to-Point, Multiple Access, and Random Access Channels. , 2021, , .		1
52	Performance analysis of coded V-BLAST with optimum power and rate allocation. , 2011, , .		0
53	Convexity of error rates in digital communications under non-Gaussian noise. , 2013, , .		0
54	New Connections Between the Entropy Power Inequality and Geometric Inequalities. , 2018, , .		0

#	Article	IF	Citations
55	Nonstationary Gauss-Markov Processes: Parameter Estimation and Dispersion. IEEE Transactions on Information Theory, 2021, 67, 2426-2449.	2.4	0
56	The Birthday Problem and Zero-Error List Codes. IEEE Transactions on Information Theory, 2021, 67, 5791-5803.	2.4	0