Jan Ã˜stergaard

List of Publications by Year
in descending order

107	1,236	516710	434195
		16	31
papers	citations	h-index	g-index

107	107	107	736
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Packetized Predictive Control of Stochastic Systems Over Bit-Rate Limited Channels With Packet Loss. IEEE Transactions on Automatic Control, 2011, 56, 2854-2868.	5.7	92
2	Energy Efficient State Estimation With Wireless Sensors Through the Use of Predictive Power Control and Coding. IEEE Transactions on Signal Processing, 2010, 58, 4811-4823.	5.3	86
3	Sparse Packetized Predictive Control for Networked Control Over Erasure Channels. IEEE Transactions on Automatic Control, 2014, 59, 1899-1905.	5.7	83
4	A Framework for Control System Design Subject to Average Data-Rate Constraints. IEEE Transactions on Automatic Control, 2011, 56, 1886-1899.	5.7	66
5	Design and Analysis of LT Codes with Decreasing Ripple Size. IEEE Transactions on Communications, 2012, 60, 3191-3197.	7.8	60
6	Improved Upper Bounds to the Causal Quadratic Rate-Distortion Function for Gaussian Stationary Sources. IEEE Transactions on Information Theory, 2012, 58, 3131-3152.	2.4	57
7	n-channel entropy-constrained multiple-description lattice vector quantization. IEEE Transactions on Information Theory, 2006, 52, 1956-1973.	2.4	49
8	Multiple-Description Coding by Dithered Delta–Sigma Quantization. IEEE Transactions on Information Theory, 2009, 55, 4661-4675.	2.4	41
9	Sequential Error Concealment for Video/Images by Sparse Linear Prediction. IEEE Transactions on Multimedia, 2013, 15, 957-969.	7.2	41
10	Power Control and Coding Formulation for State Estimation With Wireless Sensors. IEEE Transactions on Control Systems Technology, 2014, 22, 413-427.	5.2	40
11	A Characterization of the Minimal Average Data Rate That Guarantees a Given Closed-Loop Performance Level. IEEE Transactions on Automatic Control, 2016, 61, 2171-2186.	5.7	38
12	On compressed sensing and its application to speech and audio signals. , 2009, , .		35
13	Zero-Delay Rate Distortion via Filtering for Vector-Valued Gaussian Sources. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 841-856.	10.8	32
14	Discrete-time hands-off control by sparse optimization. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.7	31
15	Reconstruction Algorithms in Undersampled AFM Imaging. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 31-46.	10.8	22
16	Simple coding for achieving mean square stability over bit-rate limited channels. , 2008, , .		18
17	Ripple Design of LT Codes for BIAWGN Channels. IEEE Transactions on Communications, 2014, 62, 434-441.	7.8	18
18	Packetized predictive control for rate-limited networks via sparse representation. , 2012, , .		16

#	Article	IF	Citations
19	UEP LT Codes with Intermediate Feedback. IEEE Communications Letters, 2013, 17, 1636-1639.	4.1	16
20	Shaped Gaussian Dictionaries for Quantized Networked Control Systems With Correlated Dropouts. IEEE Transactions on Signal Processing, 2016, 64, 203-213.	5.3	16
21	n-Channel Asymmetric Entropy-Constrained Multiple-Description Lattice Vector Quantization. IEEE Transactions on Information Theory, 2010, 56, 6354-6375.	2.4	14
22	An Achievable Data-Rate Region Subject to a Stationary Performance Constraint for LTI Plants. IEEE Transactions on Automatic Control, 2011, 56, 1968-1973.	5.7	14
23	Audio coding in wireless acoustic sensor networks. Signal Processing, 2015, 107, 141-152.	3.7	13
24	Real-Time Perceptual Moving-Horizon Multiple-Description Audio Coding. IEEE Transactions on Signal Processing, 2011, 59, 4286-4299.	5.3	12
25	A Vector Quantization Approach to Scenario Generation for Stochastic NMPC. Lecture Notes in Control and Information Sciences, 2009, , 235-248.	1.0	12
26	The Quadratic Gaussian Rate-Distortion Function for Source Uncorrelated Distortions. , 2008, , .		11
27	High-Rate Analysis of Symmetric L-Channel Multiple Description Coding. IEEE Transactions on Communications, 2011, 59, 1846-1856.	7.8	11
28	Feedback in LT Codes for Prioritized and Non-Prioritized Data. , 2012, , .		11
29	Reconstruction of Undersampled Atomic Force Microscopy Images: Interpolation versus Basis Pursuit. , 2013, , .		11
30	A Moving Horizon Framework for Sound Zones. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 256-265.	5.8	11
31	Multiple description Delta-Sigma quantization with individual and central receivers. , 2010, , .		10
32	A recursive kinematic random forest and alpha beta filter classifier for 2D radar tracks. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.7	10
33	Superregular Lower Triangular Toeplitz Matrices for Low Delay Wireless Streaming. IEEE Transactions on Communications, 2017, 65, 4027-4038.	7.8	10
34	Mean square performance evaluation in frequency domain for an improved adaptive feedback cancellation in hearing aids. Signal Processing, 2019, 157, 45-61.	3.7	9
35	Estimating Conditional Transfer Entropy in Time Series Using Mutual Information and Nonlinear Prediction. Entropy, 2020, 22, 1124.	2.2	9
36	Noise-Shaped Predictive Coding for Multiple Descriptions of a Colored Gaussian Source. Proceedings of the Data Compression Conference, 2008, , .	0.0	8

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37	On the Minimal Average Data-Rate that Guarantees a Given Closed Loop Performance Level. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 67-72.	0.4	8
38	Multiple Description Coding with Feedback Based Network Compression. , 2010, , .		8
39	Sequential Error Concealment for Video/Images by Weighted Template Matching. , 2012, , .		8
40	Magni: A Python Package for Compressive Sampling and Reconstruction of Atomic Force Microscopy Images. Journal of Open Research Software, 2014, 2, .	5.9	8
41	Multiple description image/video compression using oversampling and noise shaping in the DCT-domain. , 2010, , .		6
42	Sampling versus random binning for multiple descriptions of a bandlimited source. , 2013, , .		6
43	Distributed Remote Vector Gaussian Source Coding for Wireless Acoustic Sensor Networks. , 2014, , .		6
44	Online estimation of wind turbine blade deflection with UWB signals. , 2015, , .		6
45	An upper bound to zero-delay rate distortion via Kalman filtering for vector Gaussian sources. , 2017, , .		6
46	Multiple-Description Coding by Dithered Delta-Sigma Quantization. , 2007, , .		5
47	Improved upper bounds to the causal quadratic rate-distortion function for Gaussian stationary sources. , 2010, , .		5
48	Multiple descriptions for packetized predictive control. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.7	5
49	Source Coding in Networks With Covariance Distortion Constraints. IEEE Transactions on Signal Processing, 2016, 64, 5943-5958.	5.3	5
50	Colored-Gaussian Multiple Descriptions: Spectral and Time-Domain Forms. IEEE Transactions on Information Theory, 2016, 62, 5465-5483.	2.4	5
51	Delay Minimization in Real-Time Communications With Joint Buffering and Coding. IEEE Communications Letters, 2017, 21, 52-55.	4.1	5
52	Interplay between transmission delay, average data rate, and performance in output feedback control over digital communication channels. , 2017, , .		5
53	Estimation of the second heart sound split using windowed sinusoidal models. Biomedical Signal Processing and Control, 2018, 44, 229-236.	5.7	5
54	Directed Data-Processing Inequalities for Systems with Feedback. Entropy, 2021, 23, 533.	2.2	5

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55	n-channel asymmetric multiple-description lattice vector quantization. , 2005, , .		4
56	The High-Resolution Rate-Distortion Function under the Structural Similarity Index. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	4
57	Multiple-Description l_{1}-Compression. IEEE Transactions on Signal Processing, 2011, 59, 3699-3711.	5.3	4
58	Ripple design of LT codes for AWGN channel. , 2012, , .		4
59	Correction to â€œPacketized Predictive Control of Stochastic Systems Over Bit-Rate Limited Channels With Packet Lossâ€. IEEE Transactions on Automatic Control, 2013, 58, 1869-1872.	5.7	4
60	Distributed remote vector gaussian source coding with covariance distortion constraints. , 2014, , .		4
61	Coding and Enhancement in Wireless Acoustic Sensor Networks. , 2015, , .		4
62	Achievable performance of zero-delay variable-rate coding in rate-constrained networked control systems with channel delay. , 2017, , .		4
63	Fixed-Rate Zero-Delay Source Coding for Stationary Vector-Valued Gauss-Markov Sources. , 2018, , .		4
64	Estimation of Directed Dependencies in Time Series Using Conditional Mutual Information and Non-linear Prediction. , 2021, , .		4
65	Low delay moving-horizon multiple-description audio coding forwireless hearing aids. , 2009, , .		3
66	Multiple descriptions for packetized predictive control over erasure channels. , 2011, , .		3
67	Incremental refinement using a Gaussian test channel. , 2011, , .		3
68	Multiple Description Coding for Closed Loop Systems over Erasure Channels. , 2013, , .		3
69	On the construction of jointly superregular lower triangular Toeplitz matrices. , 2016, , .		3
70	Sound Quality Improvement for Hearing Aids in Presence of Multiple Inputs. Circuits, Systems, and Signal Processing, 2019, 38, 3591-3615.	2.0	3
71	The Effect of Time Delay on the Average Data Rate and Performance in Networked Control Systems. IEEE Transactions on Automatic Control, 2022, 67, 16-31.	5.7	3
72	Source-Channel Erasure Codes with Lattice Codebooks for Multiple Description Coding. , 2006, , .		2

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73	Quantized predictive control over erasure channels. , 2009, , .		2
74	Predictive power control and multiple-description coding for wireless sensor networks. , 2009, , .		2
75	An efficient first-order method for l$_1$ compression of images. , 2009, , .		2
76	Sparse command generator for remote control. , 2011, , .		2
77	Rate-distortion in closed-loop LTI systems. , 2013, , .		2
78	Recursive Bayesian classification of surveillance radar tracks based on kinematic with temporal dynamics and static features. , 2014, , .		2
79	Practical design of delta-sigma multiple description audio coding. Eurasip Journal on Audio, Speech, and Music Processing, 2014, 2014, .	2.1	2
80	On Superregular Matrices and Convolutional Codes with Finite Decoder Memory. , 2018, , .		2
81	Zero-Delay Multiple Descriptions of Stationary Scalar Gauss-Markov Sources. Entropy, 2019, 21, 1185.	2.2	2
82	Information Loss in the Human Auditory System. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 472-481.	5.8	2
83	Bounds on the Sum-Rate of MIMO Causal Source Coding Systems with Memory under Spatio-Temporal Distortion Constraints. Entropy, 2020, 22, 842.	2.2	2
84	Comments on â€œFeedback Capacity of Stationary Gaussian Channelsâ€. IEEE Transactions on Information Theory, 2024, 70, 1848-1851.	2.4	2
85	Innovations-based state estimation with wireless sensor networks. , 2009, , .		1
86	Predicting reconstruction quality within compressive sensing for atomic force microscopy. , 2015, , .		1
87	Using position uncertainty in recursive automatic target classification of radar tracks. , 2015, , .		1
88	Detection of spoken words in noise: Comparison of human performance to maximum likelihood detection. , 2016, , .		1
89	An Asymmetric Difference Multiple Description Gaussian Noise Channel. , 2017, , .		1
90	Low Delay Robust Audio Coding by Noise Shaping, Fractional Sampling, and Source Prediction. , 2021, , .		1

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91	Minimum Processing Beamforming. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2710-2724.	5.8	1
92	On Zero-delay Source Coding of LTI Gauss-Markov Systems with Covariance Matrix Distortion Constraints. , 2018, , .		1
93	EEG Phase Synchrony Reflects SNR Levels During Continuous Speech-in-Noise Tasks. , 2021, 2021, 531-534.		1
94	l1 Compression of Image Sequences Using the Structural Similarity Index Measure. , 2009, , .		0
95	Iterated smoothing for accelerated gradient convex minimization in signal processing. , 2010, , .		0
96	Fixed-Lag Smoothing for Low-Delay Predictive Coding with Noise Shaping for Lossy Networks. , 2010, , .		0
97	Bounding the Rate Region of Vector Gaussian Multiple Descriptions with Individual and Central Receivers. , 2010, , .		0
98	Independent source coding for control over noiseless channels. , 2010, , .		0
99	On Perceptual Audio Compression with Side Information at the Decoder. , 2016, , .		0
100	Modelling reconstruction quality of Lissajous undersampled atomic force microscopy images. , 2016, , .		0
101	Two asymmetric descriptions from many symmetric descriptions. , 2016, , .		0
102	When are erasure correcting block codes better than convolutional codes in a multi-hop network?. , 2017, , .		0
103	Sequential Use of Block Codes and Convolutional Codes in a Real-Time Multi-Hop Network. , 2018, , .		0
104	Sparse Packetized Predictive Control Over Communication Networks with Packet Dropouts and Time Delays. , 2019, , .		0
105	The Entropy Gain of Linear Systems and Some of Its Implications. Entropy, 2021, 23, 947.	2.2	0
106	Humans do not Maximize the Probability of Correct Decision When Recognizing DANTALE Words in Noise. , 0, , .		0
107	A Stimuli-Relevant Directed Dependency Index for Time Series. , 2022, , .		0