

Joseph Tabrikian

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7065082/publications.pdf>

Version: 2024-02-01

100
papers

2,743
citations

279487

23
h-index

189595

50
g-index

103
all docs

103
docs citations

103
times ranked

1728
citing authors

#	ARTICLE	IF	CITATIONS
1	Composite Hypothesis Tests for Detection of Modeling Misspecification. IEEE Transactions on Signal Processing, 2022, 70, 351-365.	3.2	0
2	Model Selection via Misspecified Cram�r-Rao Bound Minimization. , 2022, , .		0
3	In Remembrance of Peter Schultheiss [In Memoriam]. IEEE Signal Processing Magazine, 2021, 38, 10-10.	4.6	0
4	Cognitive Antenna Selection for Automotive Radar Using Bobrovsky-Zakai Bound. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 892-903.	7.3	7
5	Frequency Diverse Array Signal Optimization: From Non-Cognitive to Cognitive Radar. IEEE Transactions on Signal Processing, 2021, 69, 6206-6220.	3.2	7
6	Cram�r-Rao Bound Under Norm Constraint. IEEE Signal Processing Letters, 2019, 26, 1393-1397.	2.1	2
7	The Rise of Radar for Autonomous Vehicles: Signal Processing Solutions and Future Research Directions. IEEE Signal Processing Magazine, 2019, 36, 20-31.	4.6	195
8	Waveform optimization for FDA Radar. , 2019, , .		0
9	Optimal Antenna Selection Sequence for MIMO Radar. , 2019, , .		1
10	Detection of Modeling Misspecification Using Cross-Entropy Test. , 2019, , .		2
11	Cram{ext{e}}r�Rao Bound for Constrained Parameter Estimation Using Lehmann-Unbiasedness. IEEE Transactions on Signal Processing, 2019, 67, 753-768.	3.2	19
12	Performance Analysis for Channel Estimation With 1-Bit ADC and Unknown Quantization Threshold. IEEE Transactions on Signal Processing, 2018, 66, 2557-2571.	3.2	44
13	Multivariate Bayesian Cram�r-Rao-Type Bound for Stochastic Filtering Involving Periodic States. , 2018, , .		0
14	Limitations of Constrained CRB and an Alternative Bound. , 2018, , .		2
15	Efficient Computation of MSE Lower Bounds via Matching Pursuit. , 2018, , .		0
16	A Sequential Framework for Composite Hypothesis Testing. IEEE Transactions on Signal Processing, 2018, 66, 5484-5499.	3.2	1
17	The Risk-Unbiased Cram�r�Rao Bound for Non-Bayesian Multivariate Parameter Estimation. IEEE Transactions on Signal Processing, 2018, 66, 4920-4934.	3.2	4
18	Bobrovsky�Zakai-Type Bound for Periodic Stochastic Filtering. IEEE Signal Processing Letters, 2018, 25, 1460-1464.	2.1	5

#	ARTICLE	IF	CITATIONS
19	Optimal biased estimation using Lehmann-unbiasedness. , 2017, , .		1
20	Efficient Computation of MSE Lower Bounds via Matching Pursuit. IEEE Signal Processing Letters, 2017, 24, 1798-1802.	2.1	3
21	Mean-cyclic-error lower bounds via integral transform of likelihood-ratio function. , 2016, , .		2
22	Performance analysis for pilot-based 1-bit channel estimation with unknown quantization threshold. , 2016, , .		5
23	Ambiguity function for sequential antenna selection. , 2016, , .		5
24	A risk-unbiased approach to a new Cram�r-Rao bound. , 2016, , .		1
25	Cognitive antenna selection for DOA estimation in automotive radar. , 2016, , .		16
26	Adaptive waveform design for target detection with sequential composite hypothesis testing. , 2016, , .		2
27	New observations on efficiency of variance estimation of white Gaussian signal with unknown mean. , 2016, , .		2
28	A New Class of Bayesian Cyclic Bounds for Periodic Parameter Estimation. IEEE Transactions on Signal Processing, 2016, 64, 229-243.	3.2	16
29	Risk-unbiased bound for random signal estimation in the presence of unknown deterministic channel. , 2015, , .		0
30	Cognitive antenna selection for optimal source localization. , 2015, , .		7
31	Bayesian Estimation in the Presence of Deterministic Nuisance Parameters�Part I: Performance Bounds. IEEE Transactions on Signal Processing, 2015, 63, 6632-6646.	3.2	26
32	Cram�r-Rao-type bound for state estimation in linear discrete-time system with unknown system parameters. , 2015, , .		0
33	Optimal Cognitive Beamforming for Target Tracking in MIMO Radar/Sonar. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1440-1450.	7.3	55
34	On the limitations of Barankin type bounds for MLE threshold prediction. Signal Processing, 2015, 108, 622-627.	2.1	12
35	Bayesian Estimation in the Presence of Deterministic Nuisance Parameters�Part II: Estimation Methods. IEEE Transactions on Signal Processing, 2015, 63, 6647-6658.	3.2	11
36	Cyclic Barankin-Type Bounds for Non-Bayesian Periodic Parameter Estimation. IEEE Transactions on Signal Processing, 2014, 62, 3321-3336.	3.2	24

#	ARTICLE	IF	CITATIONS
37	Bayesian cramér-rao type bound for risk-unbiased estimation with deterministic nuisance parameters. , 2014, , .		2
38	Low complexity bit and power allocation for MIMO-OFDM systems using space-frequency beamforming. Signal Processing, 2013, 93, 1961-1975.	2.1	4
39	Adaptive waveform design for target enumeration in cognitive radar. , 2013, , .		6
40	Optimal Adaptive Waveform Design for Cognitive MIMO Radar. IEEE Transactions on Signal Processing, 2013, 61, 5075-5089.	3.2	97
41	Non-Bayesian Periodic CramÀr-Rao Bound. IEEE Transactions on Signal Processing, 2013, 61, 1019-1032.	3.2	46
42	Bayesian cyclic bounds for periodic parameter estimation. , 2013, , .		6
43	A General Class of Outage Error Probability Lower Bounds in Bayesian Parameter Estimation. IEEE Transactions on Signal Processing, 2012, 60, 2152-2166.	3.2	11
44	Bayesian Parameter Estimation Using Periodic Cost Functions. IEEE Transactions on Signal Processing, 2012, 60, 1229-1240.	3.2	23
45	Performance bounds for constrained parameter estimation. , 2012, , .		14
46	Waveform design for sequential detection with subspace interference. , 2012, , .		9
47	Optimal sequential waveform design for cognitive radar. , 2012, , .		5
48	Optimal Real-Weighted Beamforming With Application to Linear and Spherical Arrays. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 2575-2585.	3.8	14
49	Classification of multichannel EEG patterns using parallel hidden Markov models. Medical and Biological Engineering and Computing, 2012, 50, 319-328.	1.6	27
50	A Barankin-Type Bound on Direction Estimation Using Acoustic Sensor Arrays. IEEE Transactions on Signal Processing, 2011, 59, 431-435.	3.2	19
51	A modular neural network for direction-of-arrival estimation of two sources. Neurocomputing, 2011, 74, 3092-3102.	3.5	13
52	Maximum A Posteriori Probability Multiple-Pitch Tracking Using the Harmonic Model. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2210-2221.	3.8	10
53	Uniformly Best Biased Estimators in Non-Bayesian Parameter Estimation. IEEE Transactions on Information Theory, 2011, 57, 7635-7647.	1.5	9
54	Periodic CRB for non-Bayesian parameter estimation. , 2011, , .		15

#	ARTICLE	IF	CITATIONS
55	General Classes of Performance Lower Bounds for Parameter Estimationâ€™Part I: Non-Bayesian Bounds for Unbiased Estimators. IEEE Transactions on Information Theory, 2010, 56, 5045-5063.	1.5	44
56	General Classes of Performance Lower Bounds for Parameter Estimationâ€™Part II: Bayesian Bounds. IEEE Transactions on Information Theory, 2010, 56, 5064-5082.	1.5	35
57	Suboptimal space-frequency waveform design for MIMO-OFDM systems. , 2010, , .		1
58	On order relations between lower bounds on the MSE of unbiased estimators. , 2010, , .		1
59	Achievable MSE lower bounds in non-Bayesian Biased estimation. , 2010, , .		1
60	QML-Based Joint Diagonalization of Positive-Definite Hermitian Matrices. IEEE Transactions on Signal Processing, 2010, 58, 4656-4673.	3.2	8
61	MMSE-Based Filtering in Presence of Non-Gaussian System and Measurement Noise. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1153-1170.	2.6	62
62	Blind MIMO-AR System Identification and Source Separation With Finite-Alphabet. IEEE Transactions on Signal Processing, 2010, 58, 990-1000.	3.2	16
63	Outage error probability lower bounds in vector parameter estimation. , 2010, , .		1
64	Maneuvering Target Tracking in the Presence of Glint using the Nonlinear Gaussian Mixture Kalman Filter. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 246-262.	2.6	70
65	Optimal Bayesian parameter estimation with periodic criteria. , 2010, , .		6
66	Hybrid lower bound via compression of the sampled CLR function. , 2009, , .		11
67	Maximum directivity beamformer for spherical-aperture microphones. , 2009, , .		5
68	MIMO-AR System Identification and Blind Source Separation for GMM-Distributed Sources. IEEE Transactions on Signal Processing, 2009, 57, 1717-1730.	3.2	17
69	General classes of Bayesian lower bounds for outage error probability and MSE. , 2009, , .		2
70	Detection of One-Lung Intubation Incidents. Annals of Biomedical Engineering, 2008, 36, 1844-1855.	1.3	5
71	A general class of lower bounds on the probability of error in multiple hypothesis testing. , 2008, , .		5
72	MMSE-Based speech enhancement using the harmonic model. , 2008, , .		3

#	ARTICLE	IF	CITATIONS
73	A new lower bound based on weighted fourier transform of the likelihood ratio function. , 2008, , .		3
74	A new lower bound on the mean-square error of biased estimators. , 2008, , .		0
75	A new lower bound on the mean-square error of unbiased estimators. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	8
76	MIMO-AR System Identification and Blind Source Separation using GMM. , 2007, , .		6
77	Fast Approximate Joint Diagonalization of Positive Definite Hermitian Matrices. , 2007, , .		11
78	Direction of Arrival Estimation in the Presence of Noise Coupling in Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2007, 55, 1940-1947.	3.1	28
79	Blind Separation of Independent Sources Using Gaussian Mixture Model. IEEE Transactions on Signal Processing, 2007, 55, 3645-3658.	3.2	26
80	Marginal Likelihood for Estimation and Detection Theory. IEEE Transactions on Signal Processing, 2007, 55, 3963-3974.	3.2	13
81	Radar target classification using doppler signatures of human locomotion models. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 1510-1522.	2.6	4
82	GMM-based target classification for ground surveillance Doppler radar. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 267-278.	2.6	115
83	Speech Source Separation in Convolutional Environments Using Space-Time-Frequency Analysis. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	10
84	Target Detection and Localization Using MIMO Radars and Sonars. IEEE Transactions on Signal Processing, 2006, 54, 3873-3883.	3.2	921
85	Generalized Likelihood Ratio Test for Voiced-Unvoiced Decision in Noisy Speech Using the Harmonic Model. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 502-510.	3.8	36
86	Electrical Dispersion Compensation Equalizers in Optical Direct- and Coherent-Detection Systems. IEEE Transactions on Communications, 2006, 54, 2045-2050.	4.9	14
87	Asymptotic Analysis of Marginal-Likelihood Based Estimators for m-Dependent Processes. , 2006, , .		0
88	An Efficient Vector Sensor Configuration for Source Localization. IEEE Signal Processing Letters, 2004, 11, 690-693.	2.1	37
89	Source Localization Using Vector Sensor Array in a Multipath Environment. IEEE Transactions on Signal Processing, 2004, 52, 3096-3103.	3.2	131
90	Maximum A-Posteriori Probability Pitch Tracking in Noisy Environments Using Harmonic Model. IEEE Transactions on Speech and Audio Processing, 2004, 12, 76-87.	2.0	70

#	ARTICLE	IF	CITATIONS
91	Underwater source detection using a spatial stationarity test. Journal of the Acoustical Society of America, 2001, 109, 1053-1063.	0.5	11
92	Relationships between adaptive minimum variance beamforming and optimal source localization. IEEE Transactions on Signal Processing, 2000, 48, 1-12.	3.2	65
93	Detection of environmental mismatch in a shallow water waveguide. IEEE Transactions on Signal Processing, 1999, 47, 2181-2190.	3.2	4
94	Barankin bounds for source localization in an uncertain ocean environment. IEEE Transactions on Signal Processing, 1999, 47, 2917-2927.	3.2	62
95	Robust maximum-likelihood source localization in an uncertain shallow-water waveguide. Journal of the Acoustical Society of America, 1997, 101, 241-249.	0.5	35
96	Performance limits on underwater acoustic matched-field processing. Journal of the Acoustical Society of America, 1997, 101, 3156-3156.	0.5	0
97	Source localization in a waveguide using polynomial rooting. IEEE Transactions on Signal Processing, 1996, 44, 1861-1871.	3.2	6
98	Capon's Time-Frequency Representation with Nonstationary AR Autocorrelation. , 0, , .		0
99	Parametric Estimation of Cumulants. , 0, , .		1
100	Transmission Diversity Smoothing for Multi-Target Localization. , 0, , .		17