

Bhaskar D Rao

List of Publications by Citations

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135
papers

3,434
citations

25
h-index

56
g-index

166
ext. papers

4,397
ext. citations

5.2
avg, IF

6.02
L-index

#	Paper	IF	Citations
135	Sparse Signal Recovery With Temporally Correlated Source Vectors Using Sparse Bayesian Learning. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2011 , 5, 912-926	7.5	485
134	An Empirical Bayesian Strategy for Solving the Simultaneous Sparse Approximation Problem. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 3704-3716	4.8	461
133	. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 2009-2015	4.8	306
132	Precoding and Power Optimization in Cell-Free Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 4445-4459	9.6	258
131	Compressed Sensing for Wireless Communications: Useful Tips and Tricks. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 1527-1550	37.1	163
130	Network Duality for Multiuser MIMO Beamforming Networks and Applications. <i>IEEE Transactions on Communications</i> , 2007 , 55, 618-630	6.9	79
129	Joint Approximately Sparse Channel Estimation and Data Detection in OFDM Systems Using Sparse Bayesian Learning. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 3591-3603	4.8	78
128	Joint Channel Estimation and Data Detection in MIMO-OFDM Systems: A Sparse Bayesian Learning Approach. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 5369-5382	4.8	77
127	Audiovisual Information Fusion in Human-Computer Interfaces and Intelligent Environments: A Survey. <i>Proceedings of the IEEE</i> , 2010 , 98, 1692-1715	14.3	75
126	Joint Beamforming and Power Control in Coordinated Multicell: Max-Min Duality, Effective Network and Large System Transition. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 2730-2742	9.6	69
125	An Analytically Tractable Approximation for the Gaussian Q-Function. <i>IEEE Communications Letters</i> , 2008 , 12, 669-671	3.8	69
124	A GAMP-Based Low Complexity Sparse Bayesian Learning Algorithm. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 294-308	4.8	62
123	Type I and Type II Bayesian Methods for Sparse Signal Recovery Using Scale Mixtures. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 3418-3428	4.8	59
122	Performance of cell-free massive MIMO systems with MMSE and LSFD receivers 2016 ,		56
121	Adaptive Opportunistic Routing for Wireless Ad Hoc Networks. <i>IEEE/ACM Transactions on Networking</i> , 2012 , 20, 243-256	3.8	55
120	A Two Microphone-Based Approach for Source Localization of Multiple Speech Sources. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010 , 18, 1913-1928		47
119	Analysis of Multiple-Antenna Systems With Finite-Rate Feedback Using High-Resolution Quantization Theory. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 1461-1476	4.8	47

118	Efficient feedback methods for MIMO channels based on parameterization. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 282-292	9.6	42
117	Semi-Blind Interference Alignment Techniques for Small Cell Networks. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 6335-6348	4.8	36
116	Quantization Methods for Equal Gain Transmission With Finite Rate Feedback. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 233-245	4.8	36
115	Global signal regression acts as a temporal downweighting process in resting-state fMRI. <i>NeuroImage</i> , 2017 , 152, 602-618	7.9	35
114	Semi-blind Channel Estimation for Multiuser Massive MIMO Systems. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 540-553	4.8	31
113	Sparse signal recovery in the presence of correlated multiple measurement vectors 2010 ,		31
112	An Analytical Framework for Heterogeneous Partial Feedback Design in Heterogeneous Multicell OFDMA Networks. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 753-769	4.8	29
111	Robust Feature Extraction for Continuous Speech Recognition Using the MVDR Spectrum Estimation Method. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007 , 15, 224-234		29
110	Outage-Efficient Strategies for Multiuser MIMO Networks With Channel Distribution Information. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 6312-6324	4.8	25
109	Robust Linear Regression via ℓ_0 Regularization. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 698-713	4.8	24
108	Support Recovery of Sparse Signals in the Presence of Multiple Measurement Vectors. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 3139-3157	2.8	24
107	Audio-Visual Fusion and Tracking With Multilevel Iterative Decoding: Framework and Experimental Evaluation. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2010 , 4, 882-894	7.5	24
106	Sparse modelling and predictive coding of subaperture images for lossless plenoptic image compression 2016 ,		24
105	Reduced Feedback Schemes Using Random Beamforming in MIMO Broadcast Channels. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 1821-1832	4.8	22
104	Superfast Line Spectral Estimation. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 2511-2526	4.8	21
103	Limits on Support Recovery of Sparse Signals via Multiple-Access Communication Techniques. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 7877-7892	2.8	19
102	Nuisance effects and the limitations of nuisance regression in dynamic functional connectivity fMRI. <i>NeuroImage</i> , 2019 , 184, 1005-1031	7.9	16
101	Performance Analysis of Heterogeneous Feedback Design in an OFDMA Downlink With Partial and Imperfect Feedback. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 1033-1046	4.8	15

100	An ICA-SCT-PHD Filter Approach for Tracking and Separation of Unknown Time-Varying Number of Sources. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013 , 21, 828-841		15
99	Random Beamforming with Heterogeneous Users and Selective Feedback: Individual Sum Rate and Individual Scaling Laws. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 2080-2090	9.6	15
98	Iterative reweighted algorithms for sparse signal recovery with temporally correlated source vectors 2011 ,		15
97	Minimum Description Length Sparse Modeling and Region Merging for Lossless Plenoptic Image Compression. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2017 , 11, 1146-1161	7.5	14
96	Channel estimation using joint dictionary learning in FDD massive MIMO systems 2015 ,		14
95	Performance analysis of transmit beamforming for MISO systems with imperfect feedback. <i>IEEE Transactions on Communications</i> , 2009 , 57, 222-231	6.9	14
94	Analysis of Multiple Antenna Systems With Finite-Rate Channel Information Feedback Over Spatially Correlated Fading Channels. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 4612-4626	4.8	14
93	Opportunistic Channel-Aware Spectrum Access for Cognitive Radio Networks with Interleaved Transmission and Sensing. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 2376-2388	9.6	13
92	A Covariance-Based Superpositional CPHD Filter for Multisource DOA Tracking. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 309-323	4.8	12
91	Packet Error Probability of a Transmit Beamforming System With Imperfect Feedback. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 2298-2314	4.8	12
90	Capacity Analysis of MIMO Systems Using Limited Feedback Transmit Precoding Schemes. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 2886-2901	4.8	12
89	A sparse Bayesian learning algorithm with dictionary parameter estimation 2014 ,		11
88	Transmit Beamforming and Power Control for Optimizing the Outage Probability Fairness in MISO Networks. <i>IEEE Transactions on Communications</i> , 2017 , 65, 839-850	6.9	11
87	Performance of Quantized Equal Gain Transmission With Noisy Feedback Channels. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 2451-2460	4.8	11
86	Speech quality and stable gain trade-offs in adaptive feedback cancellation for hearing aids. <i>Journal of the Acoustical Society of America</i> , 2017 , 142, EL388	2.2	10
85	Techniques for MIMO Channel Covariance Matrix Quantization. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 3340-3345	4.8	10
84	Multimodal information fusion using the iterative decoding algorithm and its application to audio-visual speech recognition. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	10
83	Awareness of Channel Statistics for Slow Cyclic Prefix Adaptation in an OFDMA System. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 332-335	5.9	9

82	Outage balancing in multiuser MISO networks: Network duality and algorithms 2012 ,		9
81	Closed Form Sum Rate of Random Beamforming. <i>IEEE Communications Letters</i> , 2012 , 16, 630-633	3.8	8
80	Reducing out-of-band radiation of OFDM-based cognitive radios 2010 ,		8
79	Role of head pose estimation in speech acquisition from distant microphones 2009 ,		8
78	On the benefits of the block-sparsity structure in sparse signal recovery 2012 ,		8
77	Glimpsing IVA: A Framework for Overcomplete/Complete/Undercomplete Convolutional Source Separation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010 , 18, 1841-1855		8
76	A Wearable, Extensible, Open-Source Platform for Hearing Healthcare Research. <i>IEEE Access</i> , 2019 , 7, 162083-162101	3.5	7
75	Multiuser Diversity in Interfering Broadcast Channels: Achievable Degrees of Freedom and User Scaling Law. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 5837-5849	9.6	7
74	Sum rate enhancement by maximizing SGINR in an opportunistic interference alignment scheme 2011 ,		7
73	Performance Analysis of Finite Rate Feedback MISO Systems in the Presence of Estimation Errors and Delay. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2007 ,	0.3	7
72	Robust PCA via $\ell_{0/1}$ - $\ell_{1/2}$ Regularization. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 535-549	4.9	7
71	A Realtime, Open-Source Speech-Processing Platform for Research in Hearing Loss Compensation.. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2017 , 2017, 1900-1904	0.3	6
70	Rectified Gaussian Scale Mixtures and the Sparse Non-Negative Least Squares Problem. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 3124-3139	4.8	6
69	Opportunistic Spectrum Access for Cognitive Radio Networks with Multiple Secondary Users. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 6214-6227	9.6	6
68	Independent vector analysis incorporating active and inactive states 2009 ,		6
67	Learning Methods for CDF Scheduling in Multiuser Heterogeneous Systems. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 3727-3740	4.8	5
66	Joint dictionary learning and recovery algorithms in a jointly sparse framework 2015 ,		5
65	Multicell network duality with instantaneous and statistical channel information: A nonlinear Perron-Frobenius characterization 2012 ,		5

64	Performance Evaluation of Latent Variable Models with Sparse Priors 2007 ,		5
63	Fair Scheduling Policies Exploiting Multiuser Diversity in Cellular Systems With Device-to-Device Communications. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 4757-4771	9.6	4
62	Robust Bayesian method for simultaneous block sparse signal recovery with applications to face recognition 2016 ,		4
61	Empirical Bayes based relative impulse response estimation. <i>Journal of the Acoustical Society of America</i> , 2018 , 143, 3922	2.2	4
60	Multimodal sparse Bayesian dictionary learning applied to multimodal data classification 2017 ,		4
59	CDF Scheduling Methods for Finite Rate Multiuser Systems With Limited Feedback. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 3086-3096	9.6	4
58	Compressed sensing based scalable speech coders 2012 ,		4
57	Opportunistic beamforming in a downlink distributed antenna system with linear receivers 2012 ,		4
56	Combining independent component analysis with geometric information and its application to speech processing 2009 ,		4
55	Weighted CDF-based scheduling for an OFDMA relay downlink with partial feedback 2012 ,		4
54	High-Rate Optimized Recursive Vector Quantization Structures Using Hidden Markov Models. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007 , 15, 756-769		4
53	A Wearable Platform for Research in Augmented Hearing. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2018 , 2018, 223-227	0.3	4
52	2018 ,		4
51	A Sparse Conjugate Gradient Adaptive Filter. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1000-1004	3.2	3
50	Correlation learning on joint support recovery for more sources than measurements 2016 ,		3
49	Novel partial feedback schemes and their evaluation in an OFDMA system with CDF based scheduling 2013 ,		3
48	Bootstrapped sparse Bayesian learning for sparse signal recovery 2014 ,		3
47	Opportunistic channel-aware spectrum access for cognitive radio networks with periodic sensing 2013 ,		3

46	Performance tradeoffs for exact support recovery of sparse signals 2010 ,		3
45	Two microphone based direction of arrival estimation for multiple speech sources using spectral properties of speech 2009 ,		3
44	Design and analysis of a narrowband filter for optical platform 2011 ,		3
43	High-Rate Vector Quantization for Noisy Channels With Applications to Wideband Speech Spectrum Compression. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 5390-5403	4.8	3
42	Robustness of Sparse Bayesian Learning in Correlated Environments 2020 ,		3
41	Functional connectome fingerprinting using shallow feedforward neural networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
40	General Total Variation Regularized Sparse Bayesian Learning for Robust Block-Sparse Signal Recovery 2021 ,		3
39	Learning Distributional Parameters for Adaptive Bayesian Sparse Signal Recovery. <i>IEEE Computational Intelligence Magazine</i> , 2016 , 11, 14-23	5.6	3
38	Throughput and Delay Driven Access Point Placement 2019 ,		3
37	Jointly Leveraging Decorrelation and Sparsity for Improved Feedback Cancellation in Hearing Aids. 2020 , 2020, 121-125		3
36	Access Point Location Design in Cell-Free Massive MIMO Systems 2018 ,		3
35	Recovery of Independent Sparse Sources From Linear Mixtures Using Sparse Bayesian Learning. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 6332-6346	4.8	3
34	. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 459-473	4.8	3
33	Sparse Signal Recovery Using MPDR Estimation 2019 ,		2
32	Delay Control for Temporally Fair Scheduling Policies via Opportunistic Mixing. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 5011-5024	4.8	2
31	Optimal Fair Opportunistic Scheduling For Wireless Systems Via Classification Framework. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2015 , 1, 185-199	6.6	2
30	Delay control for CDF scheduling using Markov decision process 2014 ,		2
29	Glimpsing independent vector analysis: Separating more sources than sensors using active and inactive states 2010 ,		2

28	On the role of the properties of the nonzero entries on sparse signal recovery 2010 ,		2
27	Environmental-aware heterogeneous partial feedback design in a multiuser OFDMA system 2011 ,		2
26	Separation and tracking of multiple speakers in a reverberant environment using a multiple model particle filter glimpsing method 2011 ,		2
25	A High-Rate Optimal Transform Coder With Gaussian Mixture Companders. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007 , 15, 770-783		2
24	Average SEP Loss Analysis of Transmit Beamforming for Finite Rate Feedback MISO Systems with QAM Constellation 2007 ,		2
23	Addressing the Noise Variance Problem in Sparse Bayesian Learning 2018 ,		2
22	Sparse Bayesian Learning for Robust PCA 2019 ,		1
21	Optimal scheduling policies and the performance of the CDF scheduling 2014 ,		1
20	Location aided semi-blind interference alignment for clustered small cell networks 2014 ,		1
19	Throughput improvements for cellular systems with device-to-device communications 2013 ,		1
18	Performance of a Multiuser Downlink System Applying Thresholding Feedback with Imperfect Channel Information 2013 ,		1
17	Distributed Quantization of Order Statistics with Applications to CSI Feedback 2011 ,		1
16	Heterogeneous partial feedback design in heterogeneous OFDMA cellular networks 2012 ,		1
15	Sum rate analysis and quantizer design for a quantized heterogeneous feedback MIMO OFDMA downlink 2012 ,		1
14	Optimum Codebook Design and Average SEP Loss Analysis of Spatially Independent and Correlated Feedback Based MISO Systems With Rectangular QAM Constellation. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 2017-2024	4.8	1
13	Analyzing the Effect of Channel Estimation Errors on the Average Block Error Probability of a MISO Transmit Beamforming System 2008 ,		1
12	Insights into the stable recovery of sparse solutions in overcomplete representations using network information theory. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	1
11	On the capacity of MIMO broadcast channels with reduced feedback by antenna selection 2008 ,		1

10	Ergodicity of Wireless Channels and Temporal Prediction 2006 ,		1
9	Modified Vector Quantization for Small-Cell Access Point Placement with Inter-Cell Interference. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	1
8	Semi-Blind Channel Estimation in MIMO Systems With Discrete Priors on Data Symbols. <i>IEEE Signal Processing Letters</i> , 2021 , 1-1	3.2	1
7	On Mitigating Acoustic Feedback in Hearing Aids with Frequency Warping by All-Pass Networks. <i>Interspeech</i> , 2019 , 2019, 4245-4249	1.3	1
6	Access Point Placement for Hybrid UAV-Terrestrial Small-Cell Networks. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 1826-1841	6.7	1
5	Is Vector Quantization Good Enough for Access Point Placement? 2021 ,		1
4	Block-Sparse Signal Recovery via General Total Variation Regularized Sparse Bayesian Learning. <i>IEEE Transactions on Signal Processing</i> , 2022 , 1-1	4.8	0
3	Proportionate Adaptive Filtering Algorithms Derived Using an Iterative Reweighting Framework. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021 , 29, 171-186	3.6	0
2	Highlights From the Machine Learning for Signal Processing Technical Committee [In the Spotlight]. <i>IEEE Signal Processing Magazine</i> , 2020 , 37, 202-200	9.4	
1	ResNEsts and DenseNEsts: Block-based DNN Models with Improved Representation Guarantees.. <i>Advances in Neural Information Processing Systems</i> , 2021 , 34, 3413-3424	2.2	