Behtash Babadi

List of Publications by Year in descending order

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Rehtash Rabadi

#	Article	IF	CITATIONS
1	A Review of Multitaper Spectral Analysis. IEEE Transactions on Biomedical Engineering, 2014, 61, 1555-1564.	4.2	244
2	SPARLS: The Sparse RLS Algorithm. IEEE Transactions on Signal Processing, 2010, 58, 4013-4025.	5.3	180
3	A Transition in Brain State during Propofol-Induced Unconsciousness. Journal of Neuroscience, 2014, 34, 839-845.	3.6	115
4	Small Networks Encode Decision-Making in Primary Auditory Cortex. Neuron, 2018, 97, 885-897.e6.	8.1	113
5	Sparsity enables estimation of both subcortical and cortical activity from MEG and EEG. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10465-E10474.	7.1	106
6	Real-Time Tracking of Selective Auditory Attention From M/EEC: A Bayesian Filtering Approach. Frontiers in Neuroscience, 2018, 12, 262.	2.8	94
7	Parallel Processing of Sound Dynamics across Mouse Auditory Cortex via Spatially Patterned Thalamic Inputs and Distinct Areal Intracortical Circuits. Cell Reports, 2019, 27, 872-885.e7.	6.4	88
8	Extracting neuronal functional network dynamics via adaptive Granger causality analysis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3869-E3878.	7.1	72
9	Convergence and Stability of Iteratively Re-weighted Least Squares Algorithms. IEEE Transactions on Signal Processing, 2014, 62, 183-195.	5.3	67
10	Robust decoding of selective auditory attention from MEG in a competing-speaker environment via state-space modeling. Neurolmage, 2016, 124, 906-917.	4.2	67
11	An Adaptive Greedy Algorithm With Application to Nonlinear Communications. IEEE Transactions on Signal Processing, 2010, 58, 2998-3007.	5.3	61
12	A Subspace Pursuit-based Iterative Greedy Hierarchical solution to the neuromagnetic inverse problem. Neurolmage, 2014, 87, 427-443.	4.2	41
13	Dynamic Estimation of the Auditory Temporal Response Function From MEG in Competing-Speaker Environments. IEEE Transactions on Biomedical Engineering, 2017, 64, 1896-1905.	4.2	37
14	DiBa: A Data-Driven Bayesian Algorithm for Sleep Spindle Detection. IEEE Transactions on Biomedical Engineering, 2012, 59, 483-493.	4.2	30
15	Computationally Efficient Algorithms for Sparse, Dynamic Solutions to the EEG Source Localization Problem. IEEE Transactions on Biomedical Engineering, 2018, 65, 1359-1372.	4.2	30
16	Robust spectrotemporal decomposition by iteratively reweighted least squares. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5336-45.	7.1	26
17	Sequential transmission of task-relevant information in cortical neuronal networks. Cell Reports, 2022, 39, 110878.	6.4	23
18	Recursive Sparse Point Process Regression With Application to Spectrotemporal Receptive Field Plasticity Analysis. IEEE Transactions on Signal Processing, 2016, 64, 2026-2039.	5.3	22

Behtash Babadi

#	Article	IF	CITATIONS
19	Direct extraction of signal and noise correlations from two-photon calcium imaging of ensemble neuronal activity. ELife, 2021, 10, .	6.0	15
20	Fast and Stable Signal Deconvolution via Compressible State-Space Models. IEEE Transactions on Biomedical Engineering, 2018, 65, 74-86.	4.2	14
21	Neuro-current response functions: A unified approach to MEG source analysis under the continuous stimuli paradigm. NeuroImage, 2020, 211, 116528.	4.2	14
22	Multitaper spectral analysis of neuronal spiking activity driven by latent stationary processes. Signal Processing, 2020, 170, 107429.	3.7	9
23	Robust Estimation of Self-Exciting Generalized Linear Models With Application to Neuronal Modeling. IEEE Transactions on Signal Processing, 2017, 65, 3733-3748.	5.3	8
24	Sampling Requirements for Stable Autoregressive Estimation. IEEE Transactions on Signal Processing, 2017, 65, 2333-2347.	5.3	7
25	Dynamic estimation of auditory temporal response functions via state-space models with Gaussian mixture process noise. PLoS Computational Biology, 2020, 16, e1008172.	3.2	7
26	Dynamic Bayesian Multitaper Spectral Analysis. IEEE Transactions on Signal Processing, 2018, 66, 1394-1409.	5.3	6
27	Robust Estimation of Sparse Narrowband Spectra from Neuronal Spiking Data. IEEE Transactions on Biomedical Engineering, 2017, 64, 2462-2474.	4.2	5
28	Granger Causal Inference from Indirect Low-Dimensional Measurements with Application to MEG Functional Connectivity Analysis. , 2020, , .		5
29	Real-Time Decoding of Auditory Attention from EEG via Bayesian Filtering. , 2018, 2018, 25-28.		4
30	Real-Time Tracking of Magnetoencephalographic Neuromarkers during a Dynamic Attention-Switching Task. , 2019, 2019, 4148-4151.		4
31	Robust Inference of Neuronal Correlations from Blurred and Noisy Spiking Observations. , 2020, , .		4
32	Efficient estimation of compressible state-space models with application to calcium signal deconvolution. , 2016, , .		2
33	Dynamic estimation of causal influences in sparsely-interacting neuronal ensembles. , 2016, , .		2
34	Multiplicative updates for optimization problems with dynamics. , 2017, , .		2
35	Estimation of State-Space Models with Gaussian Mixture Process Noise. , 2019, , .		2
36	Corrections to "Asymptotic Achievability of the Cramér–Rao Bound for Noisy Compressive Sampling― [Mar 09 1233-1236]. IEEE Transactions on Signal Processing, 2017, 65, 4973-4974.	5.3	1

Behtash Babadi

#	Article	IF	CITATIONS
37	Cortical Localization of the Auditory Temporal Response Function from MEG via Non-convex Optimization. , 2018, , .		1
38	Multitaper Analysis of Evolutionary Spectral Density Matrix From Multivariate Spiking Observations. , 2019, , .		1
39	A Statistical Approach to Dynamic Synchrony Analysis of Neuronal Ensemble Spiking. , 2019, , .		1
40	Multitaper Analysis of Semi-Stationary Spectra From Multivariate Neuronal Spiking Observations. IEEE Transactions on Signal Processing, 2020, 68, 4382-4396.	5.3	1
41	Sparse spectral estimation from point process observations. , 2017, , .		0
42	Sparsity Meets Dynamics: Robust Solutions to Neuronal Identification and Inverse Problems. , 2018, , 111-140.		0
43	Neural Encoding and Decoding. , 2021, , 1-24.		0
44	Adaptive Frequency-domain Granger Causal Inference from Neuronal Ensemble Data. , 2020, , .		0
45	Title is missing!. , 2020, 16, e1008172.		0
46	Title is missing!. , 2020, 16, e1008172.		0
47	Title is missing!. , 2020, 16, e1008172.		0
48	Title is missing!. , 2020, 16, e1008172.		0