

Aleksandr Y Aravkin

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

4,115
citations

279798

23
h-index

168389

53
g-index

70
all docs

70
docs citations

70
times ranked

2780
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust and Scalable Methods for the Dynamic Mode Decomposition. SIAM Journal on Applied Dynamical Systems, 2022, 21, 60-79.	1.6	5
2	A Nonconvex Optimization Approach to IMRT Planning with Doseâ€“Volume Constraints. INFORMS Journal on Computing, 2022, 34, 1366-1386.	1.7	2
3	Global mortality burden attributable to non-optimal temperatures â€“ Authorsâ€™ reply. Lancet, The, 2022, 399, 1113-1114.	13.7	1
4	Measuring the availability of human resources for health and its relationship to universal health coverage for 204 countries and territories from 1990 to 2019: a systematic analysis for the Global Burden of Disease Study 2019. Lancet, The, 2022, 399, 2129-2154.	13.7	91
5	Cost-effectiveness of rotavirus vaccination in children under five years of age in 195 countries: A meta-regression analysis. Vaccine, 2022, 40, 3903-3917.	3.8	6
6	A Proximal Quasi-Newton Trust-Region Method for Nonsmooth Regularized Optimization. SIAM Journal on Optimization, 2022, 32, 900-929.	2.0	4
7	Life Expectancy for White, Black, and Hispanic Race/Ethnicity in U.S. States: Trends and Disparities, 1990 to 2019. Annals of Internal Medicine, 2022, 175, 1057-1064.	3.9	11
8	Robust trimmed k -means. Pattern Recognition Letters, 2022, 161, 9-16.	4.2	3
9	Algorithms for Block Tridiagonal Systems: Stability Results for Generalized Kalman Smoothing. IFAC-PapersOnLine, 2021, 54, 821-826.	0.9	2
10	Trimmed Constrained Mixed Effects Models: Formulations and Algorithms. Journal of Computational and Graphical Statistics, 2021, 30, 544-556.	1.7	50
11	On the Global Minimizers of Real Robust Phase Retrieval With Sparse Noise. IEEE Transactions on Information Theory, 2021, 67, 1886-1896.	2.4	0
12	Variable Projection for NonSmooth Problems. SIAM Journal of Scientific Computing, 2021, 43, S249-S268.	2.8	8
13	Estimating health care delivery system value for each US state and testing key associations. Health Services Research, 2021, , .	2.0	1
14	Learning Brain Dynamics With Coupled Low-Dimensional Nonlinear Oscillators and Deep Recurrent Networks. Neural Computation, 2021, 33, 2087-2127.	2.2	2
15	Stable and robust LQR design via scenario approach. Automatica, 2021, 129, 109571.	5.0	11
16	Parental education and inequalities in child mortality: a global systematic review and meta-analysis. Lancet, The, 2021, 398, 608-620.	13.7	80
17	Estimating the cause-specific relative risks of non-optimal temperature on daily mortality: a two-part modelling approach applied to the Global Burden of Disease Study. Lancet, The, 2021, 398, 685-697.	13.7	147
18	Estimating global and regional disruptions to routine childhood vaccine coverage during the COVID-19 pandemic in 2020: a modelling study. Lancet, The, 2021, 398, 522-534.	13.7	232

#	ARTICLE	IF	CITATIONS
19	Promoting global stability in data-driven models of quadratic nonlinear dynamics. Physical Review Fluids, 2021, 6, .	2.5	44
20	\$\ell_{1}\$-Norm Minimization With Regula Falsi Type Root Finding Methods. IEEE Signal Processing Letters, 2021, 28, 2132-2136.	3.6	2
21	Global prevalence and burden of depressive and anxiety disorders in 204 countries and territories in 2020 due to the COVID-19 pandemic. Lancet, The, 2021, 398, 1700-1712.	13.7	2,234
22	Time-Varying Autoregression with Low-Rank Tensors. SIAM Journal on Applied Dynamical Systems, 2021, 20, 2335-2358.	1.6	8
23	Cost-effectiveness of HPV vaccination in 195 countries: A meta-regression analysis. PLoS ONE, 2021, 16, e0260808.	2.5	16
24	Trimmed Statistical Estimation via Variance Reduction. Mathematics of Operations Research, 2020, 45, 292-322.	1.3	14
25	Sparse mean-reverting portfolios via penalized likelihood optimization. Automatica, 2020, 111, 108651.	5.0	11
26	Relax-and-split method for nonconvex inverse problems. Inverse Problems, 2020, 36, 095013.	2.0	6
27	A Unified Sparse Optimization Framework to Learn Parsimonious Physics-Informed Models From Data. IEEE Access, 2020, 8, 169259-169271.	4.2	75
28	Efficient Robust Parameter Identification in Generalized Kalman Smoothing Models. IEEE Transactions on Automatic Control, 2020, , 1-1.	5.7	2
29	Dimensionality reduction and reduced-order modeling for traveling wave physics. Theoretical and Computational Fluid Dynamics, 2020, 34, 385-400.	2.2	28
30	Sparse Principal Component Analysis via Variable Projection. SIAM Journal on Applied Mathematics, 2020, 80, 977-1002.	1.8	65
31	Offline state estimation for hybrid systems via nonsmooth variable projection. Automatica, 2020, 115, 108871.	5.0	5
32	LQR Design under Stability Constraints. IFAC-PapersOnLine, 2020, 53, 5556-5560.	0.9	0
33	A Unified Framework for Sparse Relaxed Regularized Regression: SR3. IEEE Access, 2019, 7, 1404-1423.	4.2	90
34	Basis Pursuit Denoise With Nonsmooth Constraints. IEEE Transactions on Signal Processing, 2019, 67, 5811-5823.	5.3	9
35	Relaxation algorithms for matrix completion, with applications to seismic travel-time data interpolation. Inverse Problems, 2019, 35, 105009.	2.0	0
36	A Relaxed Optimization Approach for Cardinality-Constrained Portfolios. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
37	Boosting as a kernel-based method. <i>Machine Learning</i> , 2019, 108, 1951-1974.	5.4	2
38	Fast robust methods for singular state-space models. <i>Automatica</i> , 2019, 105, 399-405.	5.0	6
39	Preliminary Results in Current Profile Estimation and Doppler-aided Navigation for Autonomous Underwater Gliders. , 2019, , .		5
40	Adapting Regularized Low-Rank Models for Parallel Architectures. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, A163-A189.	2.8	6
41	Simultaneous-shot inversion for PDE-constrained optimization problems with missing data. <i>Inverse Problems</i> , 2019, 35, 025003.	2.0	2
42	Level-set methods for convex optimization. <i>Mathematical Programming</i> , 2019, 174, 359-390.	2.4	21
43	Patterns of acute bilirubin encephalopathy in Nigeria: a multicenter pre-intervention study. <i>Journal of Perinatology</i> , 2018, 38, 873-880.	2.0	36
44	Total Variation Regularization Strategies in Full-Waveform Inversion. <i>SIAM Journal on Imaging Sciences</i> , 2018, 11, 376-406.	2.2	84
45	Efficient Quadratic Penalization Through the Partial Minimization Technique. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 2131-2138.	5.7	23
46	Mean Reverting Portfolios via Penalized OU-Likelihood Estimation. , 2018, , .		3
47	A general family of trimmed estimators for robust high-dimensional data analysis. <i>Electronic Journal of Statistics</i> , 2018, 12, .	0.7	17
48	Generalized System Identification with Stable Spline Kernels. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, B1419-B1443.	2.8	7
49	Beating Level-Set Methods for 5-D Seismic Data Interpolation: A Primal-Dual Alternating Approach. <i>IEEE Transactions on Computational Imaging</i> , 2017, 3, 264-274.	4.4	4
50	Generalized Kalman smoothing: Modeling and algorithms. <i>Automatica</i> , 2017, 86, 63-86.	5.0	80
51	Learning Robust Representations for Computer Vision. , 2017, , .		1
52	Dynamic matrix factorization with social influence. , 2016, , .		5
53	Robust EM kernel-based methods for linear system identification. <i>Automatica</i> , 2016, 67, 114-126.	5.0	37
54	Beyond L2-loss functions for learning sparse models. , 2016, , .		2

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55	A stable spline convex approach to hybrid systems identification. , 2016, , .		0
56	Efficient matrix completion for seismic data reconstruction. Geophysics, 2015, 80, V97-V114.	2.6	74
57	Fast Methods for Denoising Matrix Completion Formulations, with Applications to Robust Seismic Data Interpolation. SIAM Journal of Scientific Computing, 2014, 36, S237-S266.	2.8	49
58	Orthogonal Matching Pursuit for Sparse Quantile Regression. , 2014, , .		10
59	Robust and Trend-Following Student's t Kalman Smoothers. SIAM Journal on Control and Optimization, 2014, 52, 2891-2916.	2.1	30
60	Variational Properties of Value Functions. SIAM Journal on Optimization, 2013, 23, 1689-1717.	2.0	25
61	Fast randomized full-waveform inversion with compressive sensing. Geophysics, 2012, 77, A13-A17.	2.6	85
62	Robust and Trend-following Kalman Smoothers using Student's t^* . IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1215-1220.	0.4	12
63	Estimating nuisance parameters in inverse problems. Inverse Problems, 2012, 28, 115016.	2.0	57
64	Robust inversion, dimensionality reduction, and randomized sampling. Mathematical Programming, 2012, 134, 101-125.	2.4	49
65	An ℓ_1 -Laplace Robust Kalman Smoother. IEEE Transactions on Automatic Control, 2011, 56, 2898-2911.	5.7	70
66	Data-Driven Aerospace Engineering: Reframing the Industry with Machine Learning. AIAA Journal, 0, , 1-26.	2.6	37
67	Estimating Shape Parameters of Piecewise Linear-Quadratic Problems. Open Journal of Mathematical Optimization, 0, 2, 1-18.	0.0	0
68	Mean Reverting Portfolios via Penalized OU-Likelihood Estimation. SSRN Electronic Journal, 0, , .	0.4	0