

Jalal Fadili

List of Publications by Year in descending order

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49
papers

2,934
citations

304602

22
h-index

254106

43
g-index

52
all docs

52
docs citations

52
times ranked

2972
citing authors

#	ARTICLE	IF	CITATIONS
1	Colored noise and computational inference in neurophysiological (fMRI) time series analysis: Resampling methods in time and wavelet domains. <i>Human Brain Mapping</i> , 2001, 12, 61-78.	1.9	571
2	The Undecimated Wavelet Decomposition and its Reconstruction. <i>IEEE Transactions on Image Processing</i> , 2007, 16, 297-309.	6.0	396
3	Fractional Gaussian noise, functional MRI and Alzheimer's disease. <i>NeuroImage</i> , 2005, 25, 141-158.	2.1	264
4	A Generalized Forward-Backward Splitting. <i>SIAM Journal on Imaging Sciences</i> , 2013, 6, 1199-1226.	1.3	204
5	Sparsity and Morphological Diversity in Blind Source Separation. <i>IEEE Transactions on Image Processing</i> , 2007, 16, 2662-2674.	6.0	153
6	Multiplicative Noise Removal Using L1 Fidelity on Frame Coefficients. <i>Journal of Mathematical Imaging and Vision</i> , 2010, 36, 201-226.	0.8	144
7	Wavelets and statistical analysis of functional magnetic resonance images of the human brain. <i>Statistical Methods in Medical Research</i> , 2003, 12, 375-399.	0.7	119
8	Learning the Morphological Diversity. <i>SIAM Journal on Imaging Sciences</i> , 2010, 3, 646-669.	1.3	87
9	Robust Sparse Analysis Regularization. <i>IEEE Transactions on Information Theory</i> , 2013, 59, 2001-2016.	1.5	75
10	Stein Unbiased Gradient estimator of the Risk (SUGAR) for Multiple Parameter Selection. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 2448-2487.	1.3	72
11	Activelets: Wavelets for sparse representation of hemodynamic responses. <i>Signal Processing</i> , 2011, 91, 2810-2821.	2.1	56
12	Fuzzy Markovian Segmentation in Application of Magnetic Resonance Images. <i>Computer Vision and Image Understanding</i> , 2002, 85, 54-69.	3.0	55
13	Morphological Component Analysis and inpainting on the Sphere: Application in Physics and Astrophysics. <i>Journal of Fourier Analysis and Applications</i> , 2007, 13, 729-748.	0.5	55
14	First-order optimization algorithms via inertial systems with Hessian driven damping. <i>Mathematical Programming</i> , 2022, 193, 113-155.	1.6	54
15	Convergence rates with inexact non-expansive operators. <i>Mathematical Programming</i> , 2016, 159, 403-434.	1.6	50
16	Activity Identification and Local Linear Convergence of Forward-Backward-type Methods. <i>SIAM Journal on Optimization</i> , 2017, 27, 408-437.	1.2	49
17	Region-Based Active Contours with Exponential Family Observations. <i>Journal of Mathematical Imaging and Vision</i> , 2010, 36, 28-45.	0.8	39
18	A numerical exploration of compressed sampling recovery. <i>Linear Algebra and Its Applications</i> , 2010, 432, 1663-1679.	0.4	34

#	ARTICLE	IF	CITATIONS
19	Permutation testing of orthogonal factorial effects in a language-processing experiment using fMRI. <i>Human Brain Mapping</i> , 2006, 27, 425-433.	1.9	31
20	Local behavior of sparse analysis regularization: Applications to risk estimation. <i>Applied and Computational Harmonic Analysis</i> , 2013, 35, 433-451.	1.1	27
21	On Quasi-Newton Forward-Backward Splitting: Proximal Calculus and Convergence. <i>SIAM Journal on Optimization</i> , 2019, 29, 2445-2481.	1.2	26
22	Non-smooth Non-convex Bregman Minimization: Unification and New Algorithms. <i>Journal of Optimization Theory and Applications</i> , 2019, 181, 244-278.	0.8	26
23	Fast Convergence of Dynamical ADMM via Time Scaling of Damped Inertial Dynamics. <i>Journal of Optimization Theory and Applications</i> , 2022, 193, 704-736.	0.8	20
24	The degrees of freedom of partly smooth regularizers. <i>Annals of the Institute of Statistical Mathematics</i> , 2017, 69, 791-832.	0.5	18
25	Model Consistency of Partly Smooth Regularizers. <i>IEEE Transactions on Information Theory</i> , 2018, 64, 1725-1737.	1.5	17
26	Effect of slice orientation on reproducibility of fMRI motor activation at 3 Tesla. <i>Magnetic Resonance Imaging</i> , 2001, 19, 1323-1331.	1.0	16
27	Sharp support recovery from noisy random measurements by ℓ_1 -minimization. <i>Applied and Computational Harmonic Analysis</i> , 2012, 33, 24-43.	1.1	16
28	Local Convergence Properties of Douglas-Rachford and Alternating Direction Method of Multipliers. <i>Journal of Optimization Theory and Applications</i> , 2017, 172, 874-913.	0.8	15
29	Nonlocal p -Laplacian Evolution Problems on Graphs. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 1064-1090.	1.1	15
30	Convergence of iterates for first-order optimization algorithms with inertia and Hessian driven damping. <i>Optimization</i> , 2023, 72, 1199-1238.	1.0	15
31	Morphological Diversity and Sparsity for Multichannel Data Restoration. <i>Journal of Mathematical Imaging and Vision</i> , 2009, 33, 149-168.	0.8	14
32	Optimal Reduced Model Algorithms for Data-Based State Estimation. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 3355-3381.	1.1	13
33	Local linear convergence analysis of Primal-Dual splitting methods. <i>Optimization</i> , 2018, 67, 821-853.	1.0	11
34	Activity Identification and Local Linear Convergence of Douglas-Rachford/ADMM under Partial Smoothness. <i>Lecture Notes in Computer Science</i> , 2015, , 642-653.	1.0	10
35	Sensitivity Analysis for Mirror-Stratifiable Convex Functions. <i>SIAM Journal on Optimization</i> , 2018, 28, 2975-3000.	1.2	10
36	Multiplicative Noise Cleaning via a Variational Method Involving Curvelet Coefficients. <i>Lecture Notes in Computer Science</i> , 2009, , 282-294.	1.0	10

#	ARTICLE	IF	CITATIONS
37	Model selection with low complexity priors. <i>Information and Inference</i> , 2015, , .	0.9	9
38	Low Complexity Regularization of Linear Inverse Problems. <i>Applied and Numerical Harmonic Analysis</i> , 2015, , 103-153.	0.1	8
39	Convergence Rates of Forwardâ€“Douglasâ€“Rachford Splitting Method. <i>Journal of Optimization Theory and Applications</i> , 2019, 182, 606-639.	0.8	7
40	Sampling from Non-smooth Distributions Through Langevin Diffusion. <i>Methodology and Computing in Applied Probability</i> , 2021, 23, 1173-1201.	0.7	4
41	Global convergence of model function based Bregman proximal minimization algorithms. <i>Journal of Global Optimization</i> , 2022, 83, 753-781.	1.1	3
42	On the effect of perturbations in first-order optimization methods with inertia and Hessian driven damping. <i>Evolution Equations and Control Theory</i> , 2023, 12, 71.	0.7	2
43	Adaptive wavelet estimation of a function in an indirect regression model. <i>ASTA Advances in Statistical Analysis</i> , 2012, 96, 25-46.	0.4	1
44	Guest Editorial: Mathematics and Image Analysis. <i>Journal of Mathematical Imaging and Vision</i> , 2015, 52, 315-316.	0.8	1
45	JMIV Special Issue Mathematics and Image Analysis. <i>Journal of Mathematical Imaging and Vision</i> , 2017, 59, 371-372.	0.8	0
46	Guest Editorial JMIV Special Issue Mathematics and Image Analysis (MIA). <i>Journal of Mathematical Imaging and Vision</i> , 2019, 61, 643-644.	0.8	0
47	PAC-Bayesian risk bounds for group-analysis sparse regression by exponential weighting. <i>Journal of Multivariate Analysis</i> , 2019, 171, 209-233.	0.5	0
48	Sharp oracle inequalities for low-complexity priors. <i>Annals of the Institute of Statistical Mathematics</i> , 2020, 72, 353-397.	0.5	0
49	Guest Editorial: Special Issue in Memory of Mila Nikolova. <i>Journal of Mathematical Imaging and Vision</i> , 2020, 62, 771-772.	0.8	0