

Martin Benning

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Bregman Methods for Large-Scale Optimisation with Applications in Imaging. , 2021, , 1-42.		1
2	Joint Phase Reconstruction and Magnitude Segmentation from Velocity-Encoded MRI Data. , 2021, , 1-24.		3
3	Choose Your Path Wisely: Gradient Descent in a Bregman Distance Framework. SIAM Journal on Imaging Sciences, 2021, 14, 814-843.	2.2	6
4	Deep learning as optimal control problems. IFAC-PapersOnLine, 2021, 54, 620-623.	0.9	2
5	Scanning electron diffraction tomography of strain. Inverse Problems, 2021, 37, 015003.	2.0	7
6	An entropic Landweber method for linear ill-posed problems. Inverse Problems, 2020, 36, 015009.	2.0	7
7	Learning the Sampling Pattern for MRI. IEEE Transactions on Medical Imaging, 2020, 39, 4310-4321.	8.9	37
8	Bregman Iterative Methods for Sparse Optimisation. Journal of Mathematical Imaging and Vision, 2020, 62, 842-857.	1.3	4
9	Phase diagrams of liquid-phase mixing in multi-component metal-organic framework glasses constructed by quantitative elemental nano-tomography. APL Materials, 2019, 7, .	5.1	18
10	Enhancing joint reconstruction and segmentation with non-convex Bregman iteration. Inverse Problems, 2019, 35, 055001.	2.0	17
11	Directional sinogram inpainting for limited angle tomography. Inverse Problems, 2019, 35, 024004.	2.0	27
12	Deep learning as optimal control problems: Models and numerical methods. Journal of Computational Dynamics, 2019, 6, 171-198.	1.1	29
13	Inverse scale space decomposition. Inverse Problems, 2018, 34, 045008.	2.0	12
14	Modern regularization methods for inverse problems. Acta Numerica, 2018, 27, 1-111.	10.7	216
15	Entropic Comparison of Atomic-Resolution Electron Tomography of Crystals and Amorphous Materials. Physical Review Letters, 2017, 119, 166101.	7.8	8
16	Nonlinear Spectral Image Fusion. Lecture Notes in Computer Science, 2017, , 41-53.	1.3	11
17	Learning Filter Functions in Regularisers by Minimising Quotients. Lecture Notes in Computer Science, 2017, , 511-523.	1.3	3
18	Learning parametrised regularisation functions via quotient minimisation. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 933-936.	0.2	3

#	ARTICLE	IF	CITATIONS
19	Preconditioned ADMM with Nonlinear Operator Constraint. IFIP Advances in Information and Communication Technology, 2016, , 117-126.	0.7	20
20	Reduced-dose and high-speed acquisition strategies for multi-dimensional electron microscopy. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	37
21	Variational Depth From Focus Reconstruction. IEEE Transactions on Image Processing, 2015, 24, 5369-5378.	9.8	85
22	Quantitative mapping of chemical compositions with MRI using compressed sensing. Journal of Magnetic Resonance, 2015, 261, 27-37.	2.1	8
23	Joint Registration and Parameter Estimation of T1 Relaxation Times Using Variable Flip Angles. Informatik Aktuell, 2015, , 215-220.	0.6	1
24	Phase reconstruction from velocity-encoded MRI measurements – A survey of sparsity-promoting variational approaches. Journal of Magnetic Resonance, 2014, 238, 26-43.	2.1	51
25	Ultrashort echo time (UTE) imaging using gradient pre-equalization and compressed sensing. Journal of Magnetic Resonance, 2014, 245, 116-124.	2.1	23
26	Ultrafast magnetic-resonance-imaging velocimetry of liquid-liquid systems: Overcoming chemical-shift artifacts using compressed sensing. Physical Review E, 2014, 89, 063009.	2.1	9
27	Higher-Order TV Methods – Enhancement via Bregman Iteration. Journal of Scientific Computing, 2013, 54, 269-310.	2.3	159
28	A Primal-Dual Approach for a Total Variation Wasserstein Flow. Lecture Notes in Computer Science, 2013, , 413-421.	1.3	5
29	Ground states and singular vectors of convex variational regularization methods. Methods and Applications of Analysis, 2013, 20, 295-334.	0.5	52
30	An adaptive inverse scale space method for compressed sensing. Mathematics of Computation, 2012, 82, 269-299.	2.1	72
31	Combined Correction and Reconstruction Methods. Series in Medical Physics and Biomedical Engineering, 2012, , 185-206.	0.1	0
32	Sparse recovery in myocardial blood flow quantification via PET. , 2011, , .		0
33	A Solver for Dynamic PET Reconstructions based on Forward-Backward-Splitting. , 2010, , .		6
34	A nonlinear variational method for improved quantification of myocardial blood flow using dynamic H ₂ ¹⁵ O PET. , 2008, , .		12