Ozan Ã–ktem

List of Publications by Year
in descending order

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34	1,731	759233 12	454955 30
papers	citations	h-index	g-index

36	36	36	1463
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Learned Primal-Dual Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 1322-1332.	8.9	506
2	Solving ill-posed inverse problems using iterative deep neural networks. Inverse Problems, 2017, 33, 124007.	2.0	411
3	Solving inverse problems using data-driven models. Acta Numerica, 2019, 28, 1-174.	10.7	359
4	Image formation modeling in cryo-electron microscopy. Journal of Structural Biology, 2013, 183, 19-32.	2.8	90
5	Simulation of transmission electron microscope images of biological specimens. Journal of Microscopy, 2011, 243, 234-256.	1.8	66
6	Local Tomography in Electron Microscopy. SIAM Journal on Applied Mathematics, 2008, 68, 1282-1303.	1.8	37
7	Molecular cryoâ€electron tomography of vitreous tissue sections: current challenges. Journal of Microscopy, 2009, 235, 293-307.	1.8	27
8	Indirect Image Registration with Large Diffeomorphic Deformations. SIAM Journal on Imaging Sciences, 2018, 11, 575-617.	2.2	22
9	Electron lambda-tomography. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21842-21847.	7.1	21
10	Multi-Scale Learned Iterative Reconstruction. IEEE Transactions on Computational Imaging, 2020, 6, 843-856.	4.4	21
11	A New Variational Model for Joint Image Reconstruction and Motion Estimation in Spatiotemporal Imaging. SIAM Journal on Imaging Sciences, 2019, 12, 1686-1719.	2.2	18
12	Exploiting prior knowledge about biological macromolecules in cryo-EM structure determination. IUCrJ, 2021, 8, 60-75.	2.2	14
13	Data-Driven Nonsmooth Optimization. SIAM Journal on Optimization, 2020, 30, 102-131.	2.0	13
14	Measuring true localization accuracy in super resolution microscopy with DNA-origami nanostructures. New Journal of Physics, 2017, 19, 025013.	2.9	12
15	Task adapted reconstruction for inverse problems. Inverse Problems, 2022, 38, 075006.	2.0	12
16	Tunable Ampere phase plate for low dose imaging of biomolecular complexes. Scientific Reports, 2018, 8, 5592.	3.3	11
17	Image reconstruction through metamorphosis. Inverse Problems, 2020, 36, 025001.	2.0	11
18	Shape-Based Regularization of Electron Tomographic Reconstruction. IEEE Transactions on Medical Imaging, 2012, 31, 2241-2252.	8.9	10

#	Article	IF	Citations
19	Shape-based image reconstruction using linearized deformations. Inverse Problems, 2017, 33, 035004.	2.0	10
20	Template-Based Image Reconstruction from Sparse Tomographic Data. Applied Mathematics and Optimization, 2020, 82, 1081-1109.	1.6	10
21	Extraction of Digital Wavefront Sets Using Applied Harmonic Analysis and Deep Neural Networks. SIAM Journal on Imaging Sciences, 2019, 12, 1936-1966.	2.2	9
22	Mathematics of Electron Tomography. , 2015, , 937-1031.		9
23	Shearlets as feature extractor for semantic edge detection: the model-based and data-driven realm. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190841.	2.1	6
24	Spatiotemporal PET Reconstruction Using ML-EM with Learned Diffeomorphic Deformation. Lecture Notes in Computer Science, 2019, , 151-162.	1.3	5
25	Infinite Dimensional Optimization Models and PDEs for Dejittering. Lecture Notes in Computer Science, 2015, , 678-689.	1.3	4
26	Reordering for improving global Arnoldiâ€“Tikhonov method in image restoration problems. Signal, Image and Video Processing, 2018, 12, 497-504.	2.7	3
27	Joint Image Deconvolution and Separation Using Mixed Dictionaries. IEEE Transactions on Image Processing, 2019, 28, 3936-3945.	9.8	3
28	Adversarially Learned Iterative Reconstruction for Imaging Inverse Problems. Lecture Notes in Computer Science, 2021, , 540-552.	1.3	2
29	Deep microlocal reconstruction for limited-angle tomography. Applied and Computational Harmonic Analysis, 2022, 59, 155-197.	2.2	2
30	Photon-Counting CT Reconstruction With a Learned Forward Operator. IEEE Transactions on Computational Imaging, 2022, 8, 536-550.	4.4	2
31	An efficient algorithm to compute the X-ray transform. International Journal of Computer Mathematics, 0, , 1-19.	1.8	1
32	High-Level Algorithm Prototyping: An Example Extending the TVR-DART Algorithm. Lecture Notes in Computer Science, 2017, , 109-121.	1.3	1
33	A deep learning one-step solution to material image reconstruction in photon counting spectral CT. , 2022, , .		1
34	Inversion of the Xâ€ray transform from limited angle parallel beam region of interest data with applications to electron tomography. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1050301-1050302.	0.2	0