

Andreas Hauptmann

List of Publications by Year in descending order

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37
papers

1,093
citations

567281

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414414

32
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39
all docs

39
docs citations

39
times ranked

1050
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep D-Bar: Real-Time Electrical Impedance Tomography Imaging With Deep Neural Networks. IEEE Transactions on Medical Imaging, 2018, 37, 2367-2377.	8.9	217
2	Model-Based Learning for Accelerated, Limited-View 3-D Photoacoustic Tomography. IEEE Transactions on Medical Imaging, 2018, 37, 1382-1393.	8.9	212
3	Real-time cardiovascular MR with spatio-temporal artifact suppression using deep learning—proof of concept in congenital heart disease. Magnetic Resonance in Medicine, 2019, 81, 1143-1156.	3.0	146
4	Deep learning in photoacoustic tomography: current approaches and future directions. Journal of Biomedical Optics, 2020, 25, .	2.6	80
5	Beltrami-net: domain-independent deep D-bar learning for absolute imaging with electrical impedance tomography (a-EIT). Physiological Measurement, 2019, 40, 074002.	2.1	46
6	Toward accurate quantitative photoacoustic imaging: learning vascular blood oxygen saturation in three dimensions. Journal of Biomedical Optics, 2020, 25, .	2.6	41
7	Rapid whole-heart CMR with single volume super-resolution. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 56.	3.3	39
8	A variational reconstruction method for undersampled dynamic x-ray tomography based on physical motion models. Inverse Problems, 2017, 33, 124008.	2.0	32
9	Machine learning in Magnetic Resonance Imaging: Image reconstruction. Physica Medica, 2021, 83, 79-87.	0.7	29
10	A direct D-bar method for partial boundary data electrical impedance tomography with a priori information. Inverse Problems and Imaging, 2017, 11, 427-454.	1.1	26
11	On Learned Operator Correction in Inverse Problems. SIAM Journal on Imaging Sciences, 2021, 14, 92-127.	2.2	24
12	Graph Convolutional Networks for Model-Based Learning in Nonlinear Inverse Problems. IEEE Transactions on Computational Imaging, 2021, 7, 1341-1353.	4.4	22
13	Multi-Scale Learned Iterative Reconstruction. IEEE Transactions on Computational Imaging, 2020, 6, 843-856.	4.4	21
14	Material Decomposition in Spectral CT Using Deep Learning: A Sim2Real Transfer Approach. IEEE Access, 2021, 9, 25632-25647.	4.2	18
15	A Model-Based Iterative Learning Approach for Diffuse Optical Tomography. IEEE Transactions on Medical Imaging, 2022, 41, 1289-1299.	8.9	17
16	Networks for Nonlinear Diffusion Problems in Imaging. Journal of Mathematical Imaging and Vision, 2020, 62, 471-487.	1.3	14
17	Approximate k-Space Models and Deep Learning for Fast Photoacoustic Reconstruction. Lecture Notes in Computer Science, 2018, , 103-111.	1.3	12
18	Revealing cracks inside conductive bodies by electric surface measurements. Inverse Problems, 2019, 35, 025004.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Learning and correcting non-Gaussian model errors. Journal of Computational Physics, 2021, 432, 110152.	3.8	10
20	Direct inversion from partial-boundary data in electrical impedance tomography. Inverse Problems, 2017, 33, 025009.	2.0	9
21	Structural engineering from an inverse problems perspective. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, 20210526.	2.1	9
22	Neural Network Kalman Filtering for 3-D Object Tracking From Linear Array Ultrasound Data. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1691-1702.	3.0	9
23	A data-driven edge-preserving D-bar method for electrical impedance tomography. Inverse Problems and Imaging, 2014, 8, 1053-1072.	1.1	8
24	An Efficient Quasi-Newton Method for Nonlinear Inverse Problems via Learned Singular Values. IEEE Signal Processing Letters, 2021, 28, 748-752.	3.6	7
25	Deep Learning for Instrumented Ultrasonic Tracking: From Synthetic Training Data to <i>In Vivo</i> Application. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 543-552.	3.0	7
26	Estimation of dynamic SNP-heritability with Bayesian Gaussian process models. Bioinformatics, 2020, 36, 3795-3802.	4.1	6
27	Approximation of full-boundary data from partial-boundary electrode measurements. Inverse Problems, 2017, 33, 125017.	2.0	5
28	Sequentially optimized projections in x-ray imaging [*] . Inverse Problems, 2021, 37, 075006.	2.0	4
29	Blind Hierarchical Deconvolution. , 2020, , .		3
30	Application of Proximal Alternating Linearized Minimization (PALM) and inertial PALM to dynamic 3D CT. , 2019, , .		3
31	Fusing electrical and elasticity imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200194.	3.4	2
32	Convolutional Neural Network for Material Decomposition in Spectral CT Scans. , 2021, , .		1
33	Joint reconstruction and low-rank decomposition for dynamic inverse problems. Inverse Problems and Imaging, 2021, .	1.1	1
34	NeuralLasso: Neural Networks Meet Lasso in Genomic Prediction. Frontiers in Plant Science, 2022, 13, 800161.	3.6	1
35	Hierarchical deconvolution for incoherent scatter radar data. Atmospheric Measurement Techniques, 2022, 15, 3843-3857.	3.1	1
36	Guest Editorial: MLSP 2020 Special Issue. Journal of Signal Processing Systems, 2022, 94, 1-2.	2.1	0

#	ARTICLE	IF	CITATIONS
37	Diffuse optical tomography utilizing model-based learning. , 2022, , .		0