

Andreas Hauptmann

List of Publications by Year in descending order

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37
papers

1,093
citations

567281

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39
docs citations

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times ranked

1050
citing authors

#	ARTICLE	IF	CITATIONS
1	A Model-Based Iterative Learning Approach for Diffuse Optical Tomography. IEEE Transactions on Medical Imaging, 2022, 41, 1289-1299.	8.9	17
2	Guest Editorial: MLSP 2020 Special Issue. Journal of Signal Processing Systems, 2022, 94, 1-2.	2.1	0
3	Structural engineering from an inverse problems perspective. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, 20210526.	2.1	9
4	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
5	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
6	NeuralLasso: Neural Networks Meet Lasso in Genomic Prediction. Frontiers in Plant Science, 2022, 13, 800161.	3.6	1
7	Diffuse optical tomography utilizing model-based learning. , 2022, , .		0
8	Hierarchical deconvolution for incoherent scatter radar data. Atmospheric Measurement Techniques, 2022, 15, 3843-3857.	3.1	1
9	An Efficient Quasi-Newton Method for Nonlinear Inverse Problems via Learned Singular Values. IEEE Signal Processing Letters, 2021, 28, 748-752.	3.6	7
10	On Learned Operator Correction in Inverse Problems. SIAM Journal on Imaging Sciences, 2021, 14, 92-127.	2.2	24
11	Machine learning in Magnetic Resonance Imaging: Image reconstruction. Physica Medica, 2021, 83, 79-87.	0.7	29
12	Learning and correcting non-Gaussian model errors. Journal of Computational Physics, 2021, 432, 110152.	3.8	10
13	Fusing electrical and elasticity imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200194.	3.4	2
14	Sequentially optimized projections in x-ray imaging [*] . Inverse Problems, 2021, 37, 075006.	2.0	4
15	Convolutional Neural Network for Material Decomposition in Spectral CT Scans. , 2021, , .		1
16	Material Decomposition in Spectral CT Using Deep Learning: A Sim2Real Transfer Approach. IEEE Access, 2021, 9, 25632-25647.	4.2	18
17	Joint reconstruction and low-rank decomposition for dynamic inverse problems. Inverse Problems and Imaging, 2021, .	1.1	1
18	Graph Convolutional Networks for Model-Based Learning in Nonlinear Inverse Problems. IEEE Transactions on Computational Imaging, 2021, 7, 1341-1353.	4.4	22

#	ARTICLE	IF	CITATIONS
19	Networks for Nonlinear Diffusion Problems in Imaging. Journal of Mathematical Imaging and Vision, 2020, 62, 471-487.	1.3	14
20	Blind Hierarchical Deconvolution. , 2020, , .		3
21	Rapid whole-heart CMR with single volume super-resolution. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 56.	3.3	39
22	Multi-Scale Learned Iterative Reconstruction. IEEE Transactions on Computational Imaging, 2020, 6, 843-856.	4.4	21
23	Estimation of dynamic SNP-heritability with Bayesian Gaussian process models. Bioinformatics, 2020, 36, 3795-3802.	4.1	6
24	Deep learning in photoacoustic tomography: current approaches and future directions. Journal of Biomedical Optics, 2020, 25, .	2.6	80
25	Toward accurate quantitative photoacoustic imaging: learning vascular blood oxygen saturation in three dimensions. Journal of Biomedical Optics, 2020, 25, .	2.6	41
26	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
27	Revealing cracks inside conductive bodies by electric surface measurements. Inverse Problems, 2019, 35, 025004.	2.0	11
28	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
29	Application of Proximal Alternating Linearized Minimization (PALM) and inertial PALM to dynamic 3D CT. , 2019, , .		3
30	Model-Based Learning for Accelerated, Limited-View 3-D Photoacoustic Tomography. IEEE Transactions on Medical Imaging, 2018, 37, 1382-1393.	8.9	212
31	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
32	Approximate k-Space Models and Deep Learning for Fast Photoacoustic Reconstruction. Lecture Notes in Computer Science, 2018, , 103-111.	1.3	12
33	Direct inversion from partial-boundary data in electrical impedance tomography. Inverse Problems, 2017, 33, 025009.	2.0	9
34	Approximation of full-boundary data from partial-boundary electrode measurements. Inverse Problems, 2017, 33, 125017.	2.0	5
35	A variational reconstruction method for undersampled dynamic x-ray tomography based on physical motion models. Inverse Problems, 2017, 33, 124008.	2.0	32
36	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

#	ARTICLE	IF	CITATIONS
37	A data-driven edge-preserving D-bar method for electrical impedance tomography. Inverse Problems and Imaging, 2014, 8, 1053-1072.	1.1	8