

Christoph Brune

List of Publications by Year in descending order

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papers

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citations

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33
all docs

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docs citations

33
times ranked

1203
citing authors

#	ARTICLE	IF	CITATIONS
1	Embedding artificial intelligence in society: looking beyond the EU AI master plan using the culture cycle. <i>AI and Society</i> , 2023, 38, 1465-1484.	3.1	5
2	Deep-learning-based carotid artery vessel wall segmentation in black-blood MRI using anatomical priors. , 2022, , .		7
3	Mechanisms Underlying Vascular Endothelial Growth Factor Receptor Inhibitionâ€œInduced Hypertension. <i>Hypertension</i> , 2021, 77, 1591-1599.	1.3	13
4	Anatomy-aided deep learning for medical image segmentation: a review. <i>Physics in Medicine and Biology</i> , 2021, 66, 11TR01.	1.6	32
5	Low Dimensional State Representation Learning with Robotics Priors in Continuous Action Spaces. , 2021, , .		2
6	A Partially-Learned Algorithm for Joint Photo-acoustic Reconstruction and Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 129-139.	5.4	46
7	Deep learning of circulating tumour cells. <i>Nature Machine Intelligence</i> , 2020, 2, 124-133.	8.3	48
8	Directional sinogram inpainting for limited angle tomography. <i>Inverse Problems</i> , 2019, 35, 024004.	1.0	27
9	Robustness of a partially learned photoacoustic reconstruction algorithm. , 2019, , .		3
10	A framework for directional and higher-order reconstruction in photoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2018, 63, 045018.	1.6	19
11	Sensitivity of a partially learned modelâ€œbased reconstruction algorithm. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800222.	0.2	3
12	How to Agree on a CTC: Evaluating the Consensus in Circulating Tumor Cell Scoring. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 1202-1206.	1.1	34
13	Circulating tumor cells, tumor-derived extracellular vesicles and plasma cytokeratins in castration-resistant prostate cancer patients. <i>Oncotarget</i> , 2018, 9, 19283-19293.	0.8	54
14	Risk estimators for choosing regularization parameters in ill-posed problems - properties and limitations. <i>Inverse Problems and Imaging</i> , 2018, 12, 1121-1155.	0.6	13
15	Multiscale Segmentation via Bregman Distances and Nonlinear Spectral Analysis. <i>SIAM Journal on Imaging Sciences</i> , 2017, 10, 111-146.	1.3	27
16	Cross-scale effects of neural interactions during human neocortical seizure activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10761-10766.	3.3	45
17	Combining Contrast Invariant L1 Data Fidelities with Nonlinear Spectral Image Decomposition. <i>Lecture Notes in Computer Science</i> , 2017, , 80-93.	1.0	5
18	Quantifying HER-2 expression on circulating tumor cells by ACCEPT. <i>PLoS ONE</i> , 2017, 12, e0186562.	1.1	28

#	ARTICLE	IF	CITATIONS
19	Abstract 1733: Automated identification of circulating tumor cells by image analysis. , 2017, , .		0
20	Pneumatic Distension of Ventricular Mural Architecture Validated Histologically. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2016, 188, 1045-1053.	0.7	2
21	A 4D CT digital phantom of an individual human brain for perfusion analysis. PeerJ, 2016, 4, e2683.	0.9	3
22	Height drift correction in non-raster atomic force microscopy. Ultramicroscopy, 2014, 137, 48-54.	0.8	22
23	Spiral Scanning and Encased Cantilevers for High Spatial and Temporal Resolution in Atomic Force Microscopy. Biophysical Journal, 2013, 104, 512a.	0.2	0
24	Higher-Order TV Methodsâ€™ Enhancement via Bregman Iteration. Journal of Scientific Computing, 2013, 54, 269-310.	1.1	159
25	Improved accuracy and speed in scanning probe microscopy by image reconstruction from non-gridded position sensor data. Nanotechnology, 2013, 24, 335703.	1.3	26
26	EM-TV Methods for Inverse Problems with Poisson Noise. Lecture Notes in Mathematics, 2013, , 71-142.	0.1	31
27	Primal and Dual Bregman Methods with Application to Optical Nanoscopy. International Journal of Computer Vision, 2011, 92, 211-229.	10.9	59
28	Reconstruction of short time PET scans using Bregman iterations. , 2011, , .		13
29	A Continuity Equation Based Optical Flow Method for Cardiac Motion Correction in 3D PET Data. Lecture Notes in Computer Science, 2010, , 88-97.	1.0	8
30	Total Variation Processing of Images with Poisson Statistics. Lecture Notes in Computer Science, 2009, , 533-540.	1.0	43
31	Detection of Intensity and Motion Edges within Optical Flow via Multidimensional Control. SIAM Journal on Imaging Sciences, 2009, 2, 1190-1210.	1.3	12
32	Bregman-EM-TV Methods with Application to Optical Nanoscopy. Lecture Notes in Computer Science, 2009, , 235-246.	1.0	34
33	Accurate EM-TV algorithm in PET with low SNR. , 2008, , .		71