

Christian Ledig

List of Publications by Year in descending order

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45
papers

13,124
citations

279487

23
h-index

301761

39
g-index

48
all docs

48
docs citations

48
times ranked

14827
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomarkers for Traumatic Brain Injury: Data Standards and Statistical Considerations. Journal of Neurotrauma, 2021, 38, 2514-2529.	1.7	23
2	Deep learning: Generative adversarial networks and adversarial methods. , 2020, , 547-574.		6
3	Explainable Anatomical Shape Analysis Through Deep Hierarchical Generative Models. IEEE Transactions on Medical Imaging, 2020, 39, 2088-2099.	5.4	34
4	Volume Change in Frontal Cholinergic Structures After Traumatic Brain Injury and Cognitive Outcome. Frontiers in Neurology, 2020, 11, 832.	1.1	5
5	Assessment of a deep-learning system for fracture detection in musculoskeletal radiographs. Npj Digital Medicine, 2020, 3, 144.	5.7	60
6	Integrative Analysis of Circulating Metabolite Profiles and Magnetic Resonance Imaging Metrics in Patients with Traumatic Brain Injury. International Journal of Molecular Sciences, 2020, 21, 1395.	1.8	12
7	Quantitative assessment of myelination patterns in preterm neonates using T2-weighted MRI. Scientific Reports, 2019, 9, 12938.	1.6	14
8	Structural brain imaging in Alzheimer's disease and mild cognitive impairment: biomarker analysis and shared morphometry database. Scientific Reports, 2018, 8, 11258.	1.6	106
9	Data-Driven Differential Diagnosis of Dementia Using Multiclass Disease State Index Classifier. Frontiers in Aging Neuroscience, 2018, 10, 111.	1.7	29
10	A Novel Grading Biomarker for the Prediction of Conversion From Mild Cognitive Impairment to Alzheimer's Disease. IEEE Transactions on Biomedical Engineering, 2017, 64, 155-165.	2.5	120
11	Five-class differential diagnostics of neurodegenerative diseases using random undersampling boosting. NeuroImage: Clinical, 2017, 15, 613-624.	1.4	38
12	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. Lancet Neurology, The, 2017, 16, 987-1048.	4.9	1,571
13	Efficient multi-scale 3D CNN with fully connected CRF for accurate brain lesion segmentation. Medical Image Analysis, 2017, 36, 61-78.	7.0	2,382
14	Group-constrained manifold learning: Application to AD risk assessment. Pattern Recognition, 2017, 63, 570-582.	5.1	10
15	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. Medical Image Analysis, 2017, 35, 250-269.	7.0	360
16	Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network. , 2017, , .		5,963
17	Real-Time Video Super-Resolution with Spatio-Temporal Networks and Motion Compensation. , 2017, , .		398
18	Regional brain morphometry in patients with traumatic brain injury based on acute- and chronic-phase magnetic resonance imaging. PLoS ONE, 2017, 12, e0188152.	1.1	25

#	ARTICLE	IF	CITATIONS
19	Unsupervised Domain Adaptation in Brain Lesion Segmentation with Adversarial Networks. Lecture Notes in Computer Science, 2017, , 597-609.	1.0	241
20	Instantiated mixed effects modeling of Alzheimer's disease markers. NeuroImage, 2016, 142, 113-125.	2.1	35
21	Regression analysis for assessment of myelination status in preterm brains with magnetic resonance imaging. , 2016, , .		2
22	Differential diagnosis of neurodegenerative diseases using structural MRI data. NeuroImage: Clinical, 2016, 11, 435-449.	1.4	137
23	Pseudo-healthy Image Synthesis for White Matter Lesion Segmentation. Lecture Notes in Computer Science, 2016, , 87-96.	1.0	19
24	A robust similarity measure for volumetric image registration with outliers. Image and Vision Computing, 2016, 52, 97-113.	2.7	7
25	Dynamic Changes in White Matter Abnormalities Correlate With Late Improvement and Deterioration Following TBI. Neurorehabilitation and Neural Repair, 2016, 30, 49-62.	1.4	59
26	A Semi-supervised Large Margin Algorithm for White Matter Hyperintensity Segmentation. Lecture Notes in Computer Science, 2016, , 104-112.	1.0	2
27	DeepMedic for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2016, , 138-149.	1.0	170
28	Learning Biomarker Models for Progression Estimation of Alzheimer's Disease. PLoS ONE, 2016, 11, e0153040.	1.1	21
29	Differential Dementia Diagnosis on Incomplete Data with Latent Trees. Lecture Notes in Computer Science, 2016, , 44-52.	1.0	1
30	Brain Extraction Using Label Propagation and Group Agreement: PinCram. PLoS ONE, 2015, 10, e0129211.	1.1	43
31	Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: The CADDementia challenge. NeuroImage, 2015, 111, 562-579.	2.1	266
32	Robust whole-brain segmentation: Application to traumatic brain injury. Medical Image Analysis, 2015, 21, 40-58.	7.0	146
33	Multi-stage Biomarker Models for Progression Estimation in Alzheimer's Disease. Lecture Notes in Computer Science, 2015, 24, 387-398.	1.0	13
34	Multi-atlas segmentation with augmented features for cardiac MR images. Medical Image Analysis, 2015, 19, 98-109.	7.0	137
35	Consistent and robust 4D whole-brain segmentation: Application to traumatic brain injury. , 2014, , .		3
36	Patch-Based Evaluation of Image Segmentation. , 2014, , .		12

#	ARTICLE	IF	CITATIONS
37	Automatic Whole Brain MRI Segmentation of the Developing Neonatal Brain. IEEE Transactions on Medical Imaging, 2014, 33, 1818-1831.	5.4	296
38	Automatic quantification of normal cortical folding patterns from fetal brain MRI. NeuroImage, 2014, 91, 21-32.	2.1	118
39	Multi-atlas Spectral PatchMatch: Application to Cardiac Image Segmentation. Lecture Notes in Computer Science, 2014, 17, 348-355.	1.0	7
40	Manifold Alignment and Transfer Learning for Classification of Alzheimer's Disease. Lecture Notes in Computer Science, 2014, , 77-84.	1.0	18
41	A Framework for Inter-Subject Prediction of Functional Connectivity From Structural Networks. IEEE Transactions on Medical Imaging, 2013, 32, 2200-2214.	5.4	29
42	Cardiac Image Super-Resolution with Global Correspondence Using Multi-Atlas PatchMatch. Lecture Notes in Computer Science, 2013, 16, 9-16.	1.0	150
43	Improving whole-brain segmentations through incorporating regional image intensity statistics. Proceedings of SPIE, 2013, , .	0.8	1
44	Hippocampal atrophy rate using an expectation maximization classifier with a disease-specific prior. , 2012, , .		1
45	Multi-class brain segmentation using atlas propagation and EM-based refinement. , 2012, , .		20