Paul Aljabar

List of Publications by Year
in descending order

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67	6,992	94269 37	155451 55
papers	citations	h-index	g-index

69	69	69	7635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Automatic anatomical brain MRI segmentation combining label propagation and decision fusion. NeuroImage, 2006, 33, 115-126.	2.1	794
2	Emergence of resting state networks in the preterm human brain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20015-20020.	3.3	461
3	Random forest-based similarity measures for multi-modal classification of Alzheimer's disease. NeuroImage, 2013, 65, 167-175.	2.1	376
4	Rich-club organization of the newborn human brain. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7456-7461.	3.3	300
5	Automatic Whole Brain MRI Segmentation of the Developing Neonatal Brain. IEEE Transactions on Medical Imaging, 2014, 33, 1818-1831.	5.4	296
6	Development of cortical microstructure in the preterm human brain. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9541-9546.	3.3	293
7	The Effect of Preterm Birth on Thalamic and Cortical Development. Cerebral Cortex, 2012, 22, 1016-1024.	1.6	262
8	Construction of a consistent high-definition spatio-temporal atlas of the developing brain using adaptive kernel regression. NeuroImage, 2012, 59, 2255-2265.	2.1	259
9	Clinical evaluation of atlas and deep learning based automatic contouring for lung cancer. Radiotherapy and Oncology, 2018, 126, 312-317.	0.3	256
10	A dynamic 4D probabilistic atlas of the developing brain. NeuroImage, 2011, 54, 2750-2763.	2.1	247
11	Abnormal deep grey matter development following preterm birth detected using deformation-based morphometry. NeuroImage, 2006, 32, 70-78.	2.1	220
12	LEAP: Learning embeddings for atlas propagation. NeuroImage, 2010, 49, 1316-1325.	2.1	216
13	The influence of preterm birth on the developing thalamocortical connectome. Cortex, 2013, 49, 1711-1721.	1.1	202
14	Early development of structural networks and the impact of prematurity on brain connectivity. NeuroImage, 2017, 149, 379-392.	2.1	187
15	An evaluation of four automatic methods of segmenting the subcortical structures in the brain. NeuroImage, 2009, 47, 1435-1447.	2.1	180
16	Improving intersubject image registration using tissue-class information benefits robustness and accuracy of multi-atlas based anatomical segmentation. NeuroImage, 2010, 51, 221-227.	2.1	174
17	Autosegmentation for thoracic radiation treatment planning: A grand challenge at AAPM 2017. Medical Physics, 2018, 45, 4568-4581.	1.6	169
18	Regional growth and atlasing of the developing human brain. NeuroImage, 2016, 125, 456-478.	2.1	167

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19	Improving automatic delineation for head and neck organs at risk by Deep Learning Contouring. Radiotherapy and Oncology, 2020, 142, 115-123.	0.3	141
20	Multi-region analysis of longitudinal FDG-PET for the classification of Alzheimer's disease. NeuroImage, 2012, 60, 221-229.	2.1	136
21	Measurement of hippocampal atrophy using 4D graph-cut segmentation: Application to ADNI. NeuroImage, 2010, 52, 109-118.	2.1	122
22	Automatic morphometry in Alzheimer's disease and mild cognitive impairment. NeuroImage, 2011, 56, 2024-2037.	2.1	120
23	Decreased microglial Wnt/Î²-catenin signalling drives microglial pro-inflammatory activation in the developing brain. Brain, 2019, 142, 3806-3833.	3.7	97
24	Automatic detection and quantification of hippocampal atrophy on MRI in temporal lobe epilepsy: A proof-of-principle study. NeuroImage, 2007, 36, 38-47.	2.1	91
25	Early growth in brain volume is preserved in the majority of preterm infants. Annals of Neurology, 2007, 62, 185-192.	2.8	89
26	Exploring the multiple-hit hypothesis of preterm white matter damage using diffusion MRI. NeuroImage: Clinical, 2018, 17, 596-606.	1.4	87
27	A 4D neonatal head model for diffuse optical imaging of pre-term to term infants. NeuroImage, 2014, 100, 385-394.	2.1	61
28	Multimodal image analysis of clinical influences on preterm brain development. Annals of Neurology, 2017, 82, 233-246.	2.8	61
29	Cerebral atrophy measurements using Jacobian integration: Comparison with the boundary shift integral. NeuroImage, 2006, 32, 159-169.	2.1	60
30	Resting State fMRI in the moving fetus: A robust framework for motion, bias field and spin history correction. NeuroImage, 2014, 101, 555-568.	2.1	60
31	Classification and Lateralization of Temporal Lobe Epilepsies with and without Hippocampal Atrophy Based on Whole-Brain Automatic MRI Segmentation. PLoS ONE, 2012, 7, e33096.	1.1	59
32	Comparative evaluation of autocontouring in clinical practice: A practical method using the Turing test. Medical Physics, 2018, 45, 5105-5115.	1.6	58
33	Classifier Selection Strategies for Label Fusion Using Large Atlas Databases. , 2007, 10, 523-531.		53
34	Nonlinear dimensionality reduction combining MR imaging with non-imaging information. Medical Image Analysis, 2012, 16, 819-830.	7.0	50
35	Temporal sparse free-form deformations. Medical Image Analysis, 2013, 17, 779-789.	7.0	50
36	Modelling brain development to detect white matter injury in term and preterm born neonates. Brain, 2020, 143, 467-479.	3.7	44

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37	Common Genetic Variants and Risk of Brain Injury After Preterm Birth. Pediatrics, 2014, 133, e1655-e1663.	1.0	43
38	Brain Extraction Using Label Propagation and Group Agreement: Pincram. PLoS ONE, 2015, 10, e0129211.	1.1	43
39	Longitudinal Regional Brain Development and Clinical Risk Factors in Extremely Preterm Infants. Journal of Pediatrics, 2016, 178, 93-100.e6.	0.9	42
40	Language ability in preterm children is associated with arcuate fasciculi microstructure at term. Human Brain Mapping, 2017, 38, 3836-3847.	1.9	40
41	A tract-specific approach to assessing white matter in preterm infants. NeuroImage, 2017, 157, 675-694.	2.1	35
42	Groupwise Combined Segmentation and Registration for Atlas Construction. , 2007, 10, 532-540.		34
43	Manifold Learning for Medical Image Registration, Segmentation, and Classification. Advances in Bioinformatics and Biomedical Engineering Book Series, 2012, , 351-372.	0.2	30
44	Machine learning shows association between genetic variability in PPARG and cerebral connectivity in preterm infants. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13744-13749.	3.3	29
45	A multimodal spatiotemporal cardiac motion atlas from MR and ultrasound data. Medical Image Analysis, 2017, 40, 96-110.	7.0	27
46	Multi-class brain segmentation using atlas propagation and EM-based refinement. , 2012, , .		20
47	Manifold Learning for Biomarker Discovery in MR Imaging. Lecture Notes in Computer Science, 2010, , 116-123.	1.0	16
48	Regional analysis of FDG-PET for use in the classification of Alzheimer'S Disease. , 2011, , .		16
49	Random Forest-Based Manifold Learning for Classification of Imaging Data in Dementia. Lecture Notes in Computer Science, 2011, , 159-166.	1.0	16
50	Multi-atlas Segmentation as a Graph Labelling Problem: Application to Partially Annotated Atlas Data. Lecture Notes in Computer Science, 2015, 24, 221-232.	1.0	13
51	Large dynamic range relative B1+ mapping. Magnetic Resonance in Medicine, 2016, 76, 490-499.	1.9	13
52	LISA: Longitudinal image registration via spatio-temporal atlases. , 2012, , .		11
53	Tracking developmental changes in subcortical structures of the preterm brain using multi-modal MRI. , 2011, , .		8
54	Multi-Atlas Segmentation Using Partially Annotated Data: Methods and Annotation Strategies. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1683-1696.	9.7	8

#	Article	IF	Citations
55	Segmentation of subcortical structures and the hippocampus in brain MRI using graph-cuts and subject-specific a-priori information. , 2009, , .		7
56	Towards dense motion estimation in light and electron microscopy. , 2011, , .		6
57	Manifold learning combining imaging with non-imaging information. , 2011, , .		6
58	Graph-Based Label Propagation in Fetal Brain MR Images. Lecture Notes in Computer Science, 2014, , 9-16.	1.0	6
59	Unsupervised Learning of Shape Complexity: Application to Brain Development. Lecture Notes in Computer Science, 2012, , 88-99.	1.0	6
60	Multiview Machine Learning Using anÂAtlas of Cardiac Cycle Motion. Lecture Notes in Computer Science, 2018, , 3-11.	1.0	3
61	Normalisation of Neonatal Brain Network Measures Using Stochastic Approaches. Lecture Notes in Computer Science, 2013, 16, 574-581.	1.0	2
62	Automatic segmentation of brain MRIs and mapping neuroanatomy across the human lifespan. , 2009, , .		1
63	Spectral Clustering as a Diagnostic Tool in Cross-Sectional MR Studies: An Application to Mild Dementia. Lecture Notes in Computer Science, 2008, 11, 442-449.	1.0	1
64	Measuring atrophy by simultaneous segmentation of serial MR images using 4-D graph-cuts. , 2010, , .		0
65	A repository of MR morphometry data in Alzheimer's disease and mild cognitive impairment. , 2011, , .		0
66	Construction of a 4D atlas of the developing brain using non-rigid registration. , 2011, , .		0
67	Learning and Combining Image Similarities for Neonatal Brain Population Studies. Lecture Notes in Computer Science, 2015, , 110-117.	1.0	0