

# Dzung L Pham

## List of Publications by Year in descending order

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126  
papers

8,768  
citations

101384

36  
h-index

46693

89  
g-index

131  
all docs

131  
docs citations

131  
times ranked

10370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current Methods in Medical Image Segmentation. Annual Review of Biomedical Engineering, 2000, 2, 315-337.	5.7	1,820
2	Longitudinal Magnetic Resonance Imaging Studies of Older Adults: A Shrinking Brain. Journal of Neuroscience, 2003, 23, 3295-3301.	1.7	1,168
3	An adaptive fuzzy C-means algorithm for image segmentation in the presence of intensity inhomogeneities. Pattern Recognition Letters, 1999, 20, 57-68.	2.6	411
4	Spatial Models for Fuzzy Clustering. Computer Vision and Image Understanding, 2001, 84, 285-297.	3.0	351
5	Statistical normalization techniques for magnetic resonance imaging. NeuroImage: Clinical, 2014, 6, 9-19.	1.4	300
6	A topology-preserving approach to the segmentation of brain images with multiple sclerosis lesions. NeuroImage, 2010, 49, 1524-1535.	2.1	287
7	An Image-Processing System for Qualitative and Quantitative Volumetric Analysis of Brain Images. Journal of Computer Assisted Tomography, 1998, 22, 827-837.	0.5	264
8	CRUISE: Cortical reconstruction using implicit surface evolution. NeuroImage, 2004, 23, 997-1012.	2.1	239
9	Longitudinal multiple sclerosis lesion segmentation: Resource and challenge. NeuroImage, 2017, 148, 77-102.	2.1	215
10	Relationships Between Retinal Axonal and Neuronal Measures and Global Central Nervous System Pathology in Multiple Sclerosis. JAMA Neurology, 2013, 70, 34.	4.5	197
11	DeepHarmony: A deep learning approach to contrast harmonization across scanner changes. Magnetic Resonance Imaging, 2019, 64, 160-170.	1.0	150
12	Random forest regression for magnetic resonance image synthesis. Medical Image Analysis, 2017, 35, 475-488.	7.0	136
13	Time course and diagnostic utility of NfL, tau, GFAP, and UCH-L1 in subacute and chronic TBI. Neurology, 2020, 95, e623-e636.	1.5	136
14	Neurofilament light as a biomarker in traumatic brain injury. Neurology, 2020, 95, e610-e622.	1.5	127
15	The Java Image Science Toolkit (JIST) for Rapid Prototyping and Publishing of Neuroimaging Software. Neuroinformatics, 2010, 8, 5-17.	1.5	121
16	Volumetric neuroimage analysis extensions for the MIPAV software package. Journal of Neuroscience Methods, 2007, 165, 111-121.	1.3	114
17	Topology-Preserving Tissue Classification of Magnetic Resonance Brain Images. IEEE Transactions on Medical Imaging, 2007, 26, 487-496.	5.4	112
18	Homeomorphic brain image segmentation with topological and statistical atlases. Medical Image Analysis, 2008, 12, 616-625.	7.0	107

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19	A Three-Dimensional Computational Human Head Model That Captures Live Human Brain Dynamics. <i>Journal of Neurotrauma</i> , 2017, 34, 2154-2166.	1.7	99
20	Revisiting Brain Atrophy and Its Relationship to Disability in Multiple Sclerosis. <i>PLoS ONE</i> , 2012, 7, e37049.	1.1	97
21	Consistent cortical reconstruction and multi-atlas brain segmentation. <i>NeuroImage</i> , 2016, 138, 197-210.	2.1	94
22	Evaluating White Matter Lesion Segmentations with Refined Sørensen-Dice Analysis. <i>Scientific Reports</i> , 2020, 10, 8242.	1.6	94
23	Robust skull stripping using multiple MR image contrasts insensitive to pathology. <i>NeuroImage</i> , 2017, 146, 132-147.	2.1	84
24	OASIS is Automated Statistical Inference for Segmentation, with applications to multiple sclerosis lesion segmentation in MRI. <i>NeuroImage: Clinical</i> , 2013, 2, 402-413.	1.4	80
25	Reduction of Disease Activity and Disability With High-Dose Cyclophosphamide in Patients With Aggressive Multiple Sclerosis. <i>Archives of Neurology</i> , 2008, 65, 1044-51.	4.9	78
26	Decreased microglial activation in MS patients treated with glatiramer acetate. <i>Journal of Neurology</i> , 2012, 259, 1199-1205.	1.8	76
27	PET Attenuation Correction Using Synthetic CT from Ultrashort Echo-Time MR Imaging. <i>Journal of Nuclear Medicine</i> , 2014, 55, 2071-2077.	2.8	69
28	Brain and retinal atrophy in African-Americans versus Caucasian-Americans with multiple sclerosis: a longitudinal study. <i>Brain</i> , 2018, 141, 3115-3129.	3.7	67
29	Cortical surface segmentation and mapping. <i>NeuroImage</i> , 2004, 23, S108-S118.	2.1	64
30	Subject-Specific Sparse Dictionary Learning for Atlas-Based Brain MRI Segmentation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1598-1609.	3.9	64
31	Automatic magnetic resonance spinal cord segmentation with topology constraints for variable fields of view. <i>NeuroImage</i> , 2013, 83, 1051-1062.	2.1	63
32	Direct segmentation of the major white matter tracts in diffusion tensor images. <i>NeuroImage</i> , 2011, 58, 458-468.	2.1	62
33	MR image synthesis by contrast learning on neighborhood ensembles. <i>Medical Image Analysis</i> , 2015, 24, 63-76.	7.0	59
34	Improved measurement of brain deformation during mild head acceleration using a novel tagged MRI sequence. <i>Journal of Biomechanics</i> , 2014, 47, 3475-3481.	0.9	58
35	Topology correction of segmented medical images using a fast marching algorithm. <i>Computer Methods and Programs in Biomedicine</i> , 2007, 88, 182-190.	2.6	46
36	Effects of Ginkgo biloba on cerebral blood flow assessed by quantitative MR perfusion imaging: a pilot study. <i>Neuroradiology</i> , 2011, 53, 185-191.	1.1	44

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37	MIMoSA: An Automated Method for Intermodal Segmentation Analysis of Multiple Sclerosis Brain Lesions. <i>Journal of Neuroimaging</i> , 2018, 28, 389-398.	1.0	44
38	In vivo estimates of axonal stretch and 3D brain deformation during mild head impact. <i>Brain Multiphysics</i> , 2020, 1, 100015.	0.8	43
39	Finding the brain cortex using fuzzy segmentation, isosurfaces, and deformable surface models. <i>Lecture Notes in Computer Science</i> , 1997, , 399-404.	1.0	41
40	Digital Homeomorphisms in Deformable Registration. <i>Lecture Notes in Computer Science</i> , 2007, 20, 211-222.	1.0	37
41	Connecting combat-related mild traumatic brain injury with posttraumatic stress disorder symptoms through brain imaging. <i>Neuroscience Letters</i> , 2014, 577, 11-15.	1.0	35
42	MR contrast synthesis for lesion segmentation. , 2010, 2010, 932-935.		34
43	Reconstruction of the human cerebral cortex robust to white matter lesions: Method and validation. <i>Human Brain Mapping</i> , 2014, 35, 3385-3401.	1.9	33
44	Trauma-Specific Brain Abnormalities in Suspected Mild Traumatic Brain Injury Patients Identified in the First 48 Hours after Injury: A Blinded Magnetic Resonance Imaging Comparative Study Including Suspected Acute Minor Stroke Patients. <i>Journal of Neurotrauma</i> , 2017, 34, 23-30.	1.7	32
45	Longitudinal multiple sclerosis lesion segmentation data resource. <i>Data in Brief</i> , 2017, 12, 346-350.	0.5	31
46	Statistical Characterization of Human Brain Deformation During Mild Angular Acceleration Measured In Vivo by Tagged Magnetic Resonance Imaging. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	31
47	Brain Volume, Connectivity, and Neuropsychological Performance in Mild Traumatic Brain Injury: The Impact of Post-Traumatic Stress Disorder Symptoms. <i>Journal of Neurotrauma</i> , 2017, 34, 16-22.	1.7	30
48	3-D Measurements of Acceleration-Induced Brain Deformation via Harmonic Phase Analysis and Finite-Element Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1456-1467.	2.5	30
49	Disrupted Gamma Synchrony after Mild Traumatic Brain Injury and Its Correlation with White Matter Abnormality. <i>Frontiers in Neurology</i> , 2017, 8, 571.	1.1	28
50	Distributed deep learning across multisite datasets for generalized CT hemorrhage segmentation. <i>Medical Physics</i> , 2020, 47, 89-98.	1.6	28
51	Gradient nonlinearity effects on upper cervical spinal cord area measurement from 3D T <sub>1</sub> -weighted brain MRI acquisitions. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1595-1601.	1.9	27
52	TBI contusion segmentation from MRI using convolutional neural networks. , 2018, , .		27
53	Effect of disease-modifying therapies on subcortical gray matter atrophy in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2020, 26, 312-321.	1.4	27
54	Phase Vector Incompressible Registration Algorithm for Motion Estimation From Tagged Magnetic Resonance Images. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2116-2128.	5.4	26

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55	Pure-tone auditory thresholds are not chronically elevated in multiple sclerosis.. Behavioral Neuroscience, 2012, 126, 314-324.	0.6	24
56	MR Imaging of Human Brain Mechanics In Vivo: New Measurements to Facilitate the Development of Computational Models of Brain Injury. Annals of Biomedical Engineering, 2021, 49, 2677-2692.	1.3	24
57	Balance in multiple sclerosis: relationship to central brain regions. Experimental Brain Research, 2018, 236, 2739-2750.	0.7	22
58	Segmentation of Brain Images Using Adaptive Atlases with Application to Ventriculomegaly. Lecture Notes in Computer Science, 2011, 22, 1-12.	1.0	22
59	Lasting deficit in inhibitory control with mild traumatic brain injury. Scientific Reports, 2017, 7, 14902.	1.6	20
60	A deep learning framework for brain extraction in humans and animals with traumatic brain injury. , 2018, , .		20
61	Meningeal bloodâ€“brain barrier disruption in acute traumatic brain injury. Brain Communications, 2020, 2, fcaa143.	1.5	20
62	Quantitative assessment of susceptibilityâ€“weighted imaging processing methods. Journal of Magnetic Resonance Imaging, 2014, 40, 1463-1473.	1.9	19
63	Taste dysfunction in multiple sclerosis. Journal of Neurology, 2016, 263, 677-688.	1.8	19
64	Subject Specific Sparse Dictionary Learning for Atlas Based Brain MRI Segmentation. Lecture Notes in Computer Science, 2014, 8679, 248-255.	1.0	19
65	Synthesizing CT from Ultrashort Echo-Time MR Images via Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 24-32.	1.0	19
66	Combining multi-atlas segmentation with brain surface estimation. Proceedings of SPIE, 2016, 9784, .	0.8	18
67	Automatic classification of sulcal regions of the human brain cortex using pattern recognition. , 2003, , .		17
68	An Adaptive Fuzzy Segmentation Algorithm for Three-Dimensional Magnetic Resonance Images. Lecture Notes in Computer Science, 1999, , 140-153.	1.0	17
69	Central Vein Sign Profile of Newly Developing Lesions in Multiple Sclerosis. Neurology: Neuroimmunology and NeuroInflammation, 2022, 9, .	3.1	17
70	Reconstruction of the central layer of the human cerebral cortex from MR images. Lecture Notes in Computer Science, 1998, , 481-488.	1.0	16
71	Unilateral olfactory sensitivity in multiple sclerosis. Physiology and Behavior, 2017, 168, 24-30.	1.0	16
72	Statistical and Topological Atlas Based Brain Image Segmentation. , 2007, 10, 94-101.		14

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73	Fuzzy c-means with variable compactness. , 2008, 4541030, 452.		13
74	Segmentation and labeling of the ventricular system in normal pressure hydrocephalus using patch-based tissue classification and multi-atlas labeling. Proceedings of SPIE, 2016, 9784, .	0.8	12
75	Distributed deep learning for robust multi-site segmentation of CT imaging after traumatic brain injury. , 2019, 10949, .		12
76	Topology Correction Using Fast Marching Methods and Its Application to Brain Segmentation. Lecture Notes in Computer Science, 2005, 8, 484-491.	1.0	11
77	Motion Estimation with Finite-Element Biomechanical Models and Tracking Constraints from Tagged MRI. , 2017, 2017, 81-90.		11
78	Patch Based Synthesis of Whole Head MR Images: Application To EPI Distortion Correction. Lecture Notes in Computer Science, 2016, 9968, 146-156.	1.0	10
79	Federated Gradient Averaging for Multi-Site Training with Momentum-Based Optimizers. Lecture Notes in Computer Science, 2020, 12444, 170-180.	1.0	10
80	Opportunities for Understanding MS Mechanisms and Progression With MRI Using Large-Scale Data Sharing and Artificial Intelligence. Neurology, 2021, 97, 989-999.	1.5	10
81	Topology Preserving Tissue Classification with Fast Marching and Topology Templates. Lecture Notes in Computer Science, 2005, 19, 234-245.	1.0	9
82	Digital Topology in Brain Imaging. IEEE Signal Processing Magazine, 2010, 27, 51-59.	4.6	9
83	Whole Brain Parcellation with Pathology: Validation on Ventriculomegaly Patients. Lecture Notes in Computer Science, 2017, 10530, 20-28.	1.0	9
84	Free software tools for atlas-based volumetric neuroimage analysis. , 2005, , .		8
85	Random forest FLAIR reconstruction from T<sub>1</sub>, T<sub>2</sub>, and P<sub>D</sub>-weighted MRI. , 2014, 2014, 1079-1082.		8
86	Cerebral microbleed segmentation from susceptibility weighted images. Proceedings of SPIE, 2015, , .	0.8	8
87	Multiple Sclerosis Lesion Segmentation Using Statistical and Topological Atlases. , 2008, , .		8
88	Volumetric Segmentation. , 2000, , 185-194.		7
89	Multi-output decision trees for lesion segmentation in multiple sclerosis. Proceedings of SPIE, 2015, 9413, .	0.8	7
90	Automatic falx cerebri and tentorium cerebelli segmentation from magnetic resonance images. Proceedings of SPIE, 2017, 10137, .	0.8	7

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91	Integrating material properties from magnetic resonance elastography into subject-specific computational models for the human brain. <i>Brain Multiphysics</i> , 2021, 2, 100038.	0.8	7
92	Longitudinal intensity normalization in the presence of multiple sclerosis lesions. , 2013, , 1384-1387.		6
93	Artifactual microhemorrhage generated by susceptibility weighted image processing. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1695-1700.	1.9	6
94	Longitudinal Patch-Based Segmentation of Multiple Sclerosis White Matter Lesions. <i>Lecture Notes in Computer Science</i> , 2015, 9352, 194-202.	1.0	6
95	Tree-Encoded Conditional Random Fields for Image Synthesis. <i>Lecture Notes in Computer Science</i> , 2015, 24, 733-745.	1.0	6
96	Falx Cerebri Segmentation via Multi-atlas Boundary Fusion. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 92-99.	1.0	6
97	TAPAS: A Thresholding Approach for Probability Map Automatic Segmentation in Multiple Sclerosis. <i>NeuroImage: Clinical</i> , 2020, 27, 102256.	1.4	5
98	Group characterization of impact-induced, in vivo human brain kinematics. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210251.	1.5	5
99	Dice Overlap Measures for Objects of Unknown Number: Application to Lesion Segmentation. <i>Lecture Notes in Computer Science</i> , 2018, 10670, 3-14.	1.0	5
100	Belief Propagation Based Segmentation of White Matter Tracts in DTI. <i>Lecture Notes in Computer Science</i> , 2009, 12, 943-950.	1.0	5
101	Statistical image analysis of longitudinal RAVENS images. <i>Frontiers in Neuroscience</i> , 2015, 9, 368.	1.4	4
102	Temporal filtering of longitudinal brain magnetic resonance images for consistent segmentation. <i>NeuroImage: Clinical</i> , 2016, 11, 264-275.	1.4	4
103	Progressive multifocal leukoencephalopathy lesion and brain parenchymal segmentation from MRI using serial deep convolutional neural networks. <i>NeuroImage: Clinical</i> , 2020, 28, 102499.	1.4	4
104	3D Brain Deformation in Cadaveric Specimens Compared to Healthy Volunteers Under Non-injurious Loading Conditions. , 2021, , 113-122.		4
105	Topology Smoothing for Segmentation and Surface Reconstruction. <i>Lecture Notes in Computer Science</i> , 2004, , 111-118.	1.0	4
106	Extracting 2D weak labels from volume labels using multiple instance learning in CT hemorrhage detection. , 2020, 11313, .		4
107	Quantitative evaluation of phase processing approaches in susceptibility weighted imaging. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
108	Image synthesis and superresolution in medical imaging. , 2020, , 1-24.		3

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109	Joint Image and Label Self-super-Resolution. Lecture Notes in Computer Science, 2021, 12965, 14-23.	1.0	3
110	Joint Intensity Fusion Image Synthesis Applied to Multiple Sclerosis Lesion Segmentation. Lecture Notes in Computer Science, 2018, , 43-54.	1.0	3
111	Cascaded convolutional neural networks for spine chordoma tumor segmentation from MRI. , 2019, , .		3
112	Fiber tractography and tract segmentation in multiple sclerosis lesions. , 2011, , .		2
113	AdaBoosted Deep Ensembles: Getting Maximum Performance Out of Small Training Datasets. Lecture Notes in Computer Science, 2020, , 572-582.	1.0	2
114	Joint Intensity Fusion Image Synthesis Applied to Multiple Sclerosis Lesion Segmentation. , 2018, 10670, 43-54.		2
115	Clustering of High Dimensional Longitudinal Imaging Data. , 2013, , .		1
116	Characterizing the spatial distribution of microhemorrhages resulting from Traumatic Brain Injury (TBI). Proceedings of SPIE, 2014, , .	0.8	1
117	Abusive Head Trauma: Developing a Computational Adult Head Model to Predict Brain Deformations under Mild Accelerations. , 2017, , 147-157.		1
118	Alternating segmentation and simulation for contrast adaptive tissue classification. , 2018, , .		1
119	Multiple Sclerosis brain lesion segmentation with different architecture ensembles. , 2022, , .		1
120	BrainACS: a system for web-based medical image processing. Proceedings of SPIE, 2009, , .	0.8	0
121	Intraparenchymal hemorrhage segmentation from clinical head CT of patients with traumatic brain injury. Proceedings of SPIE, 2015, , .	0.8	0
122	Evaluating model misspecification in independent component analysis. Journal of Statistical Computation and Simulation, 2015, 85, 1151-1164.	0.7	0
123	Atlas of Acceleration-Induced Brain Deformation from Measurements In Vivo. , 2019, , 3-14.		0
124	Quantitative Validation of MRI-Based Motion Estimation for Brain Impact Biomechanics. , 2020, , 61-71.		0
125	Digital Topology in Brain Image Segmentation and Registration. , 2011, , 339-375.		0
126	ErbB Signaling Pathway Genes Are Differentially Expressed in Monozygotic Twins Discordant for Sports-Related Concussion. Twin Research and Human Genetics, 0, , 1-8.	0.3	0