

# Zhuowen Tu

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

6,188  
citations

279487

23  
h-index

500791

28  
g-index

33  
all docs

33  
docs citations

33  
times ranked

8307  
citing authors

#	ARTICLE	IF	CITATIONS
1	Similarity network fusion for aggregating data types on a genomic scale. <i>Nature Methods</i> , 2014, 11, 333-337.	9.0	1,392
2	Robust Point Matching via Vector Field Consensus. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 1706-1721.	6.0	470
3	Robust Brain Extraction Across Datasets and Comparison With Publicly Available Methods. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1617-1634.	5.4	463
4	Auto-Context and Its Application to High-Level Vision Tasks and 3D Brain Image Segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010, 32, 1744-1757.	9.7	423
5	Image segmentation by data-driven markov chain monte carlo. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2002, 24, 657-673.	9.7	400
6	Cluster-Based Co-Saliency Detection. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 3766-3778.	6.0	360
7	Image Parsing: Unifying Segmentation, Detection, and Recognition. <i>International Journal of Computer Vision</i> , 2005, 63, 113-140.	10.9	344
8	Robust $L_2$ Estimation of Transformation for Non-Rigid Registration. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 1115-1129.	3.2	262
9	Weakly supervised histopathology cancer image segmentation and classification. <i>Medical Image Analysis</i> , 2014, 18, 591-604.	7.0	217
10	Automated mapping of hippocampal atrophy in 1-year repeat MRI data from 490 subjects with Alzheimer's disease, mild cognitive impairment, and elderly controls. <i>NeuroImage</i> , 2009, 45, S3-S15.	2.1	211
11	Learning Context-Sensitive Shape Similarity by Graph Transduction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010, 32, 861-874.	9.7	211
12	Comparison of AdaBoost and Support Vector Machines for Detecting Alzheimer's Disease Through Automated Hippocampal Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 30-43.	5.4	184
13	Validation of a fully automated 3D hippocampal segmentation method using subjects with Alzheimer's disease mild cognitive impairment, and elderly controls. <i>NeuroImage</i> , 2008, 43, 59-68.	2.1	181
14	Automated 3D mapping of hippocampal atrophy and its clinical correlates in 400 subjects with Alzheimer's disease, mild cognitive impairment, and elderly controls. <i>Human Brain Mapping</i> , 2009, 30, 2766-2788.	1.9	178
15	Regularized vector field learning with sparse approximation for mismatch removal. <i>Pattern Recognition</i> , 2013, 46, 3519-3532.	5.1	178
16	Brain Anatomical Structure Segmentation by Hybrid Discriminative/Generative Models. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 495-508.	5.4	152
17	Unsupervised Object Class Discovery via Saliency-Guided Multiple Class Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015, 37, 862-875.	9.7	93
18	MILCut: A Sweeping Line Multiple Instance Learning Paradigm for Interactive Image Segmentation. , 2014, , .		82

#	ARTICLE	IF	CITATIONS
19	Multiple Component Learning for Object Detection. Lecture Notes in Computer Science, 2008, , 211-224.	1.0	79
20	Range image segmentation by an effective jump-diffusion method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1138-1153.	9.7	49
21	Direct mapping of hippocampal surfaces with intrinsic shape context. NeuroImage, 2007, 37, 792-807.	2.1	48
22	Automatic Subcortical Segmentation Using a Contextual Model. Lecture Notes in Computer Science, 2008, 11, 194-201.	1.0	34
23	Parsing Images into Regions, Curves, and Curve Groups. International Journal of Computer Vision, 2006, 69, 223-249.	10.9	33
24	Image Parsing: Unifying Segmentation, Detection, and Recognition. Lecture Notes in Computer Science, 2006, , 545-576.	1.0	32
25	Integrating bottom-up/top-down for object recognition by data driven Markov chain Monte Carlo. , 0, , .		25
26	Context-Constrained Multiple Instance Learning for Histopathology Image Segmentation. Lecture Notes in Computer Science, 2012, 15, 623-630.	1.0	24
27	Co-transduction for Shape Retrieval. Lecture Notes in Computer Science, 2010, , 328-341.	1.0	21
28	Robust Skull Stripping of Clinical Glioblastoma Multiforme Data. Lecture Notes in Computer Science, 2011, 14, 659-666.	1.0	18
29	Segmentation of Sub-cortical Structures by the Graph-Shifts Algorithm. Lecture Notes in Computer Science, 2007, 20, 183-197.	1.0	15
30	Scale-Space SIFT flow. , 2014, , .		5
31	Guest Editorial: Introduction to the Special Section on Fine-Grained Visual Categorization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 560-562.	9.7	2
32	Machine Learning for Brain Image Segmentation. , 2012, , 851-874.		1
33	Machine Learning for Brain Image Segmentation. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 102-126.	0.2	1