

# Shaoting Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,846  
citations

516710

16  
h-index

580821

25  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2103  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Large-Scale Histopathological Image Analysis: Hashing-Based Image Retrieval. IEEE Transactions on Medical Imaging, 2015, 34, 496-506.	8.9	182
2	IDRiD: Diabetic Retinopathy " Segmentation and Grading Challenge. Medical Image Analysis, 2020, 59, 101561.	11.6	162
3	Large-scale retrieval for medical image analytics: A comprehensive review. Medical Image Analysis, 2018, 43, 66-84.	11.6	151
4	Query Specific Rank Fusion for Image Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 803-815.	13.9	143
5	Deformable segmentation via sparse representation and dictionary learning. Medical Image Analysis, 2012, 16, 1385-1396.	11.6	140
6	Automatic image annotation using group sparsity. , 2010, , .		132
7	Query Specific Fusion for Image Retrieval. Lecture Notes in Computer Science, 2012, , 660-673.	1.3	105
8	Computer-Aided Diagnosis of Mammographic Masses Using Scalable Image Retrieval. IEEE Transactions on Biomedical Engineering, 2015, 62, 783-792.	4.2	95
9	Automatic Image Annotation and Retrieval Using Group Sparsity. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 838-849.	5.0	85
10	High-throughput histopathological image analysis via robust cell segmentation and hashing. Medical Image Analysis, 2015, 26, 306-315.	11.6	78
11	Automated anatomical landmark detection on distal femur surface using convolutional neural network. , 2015, , .		57
12	Robust Cell Detection and Segmentation in Histopathological Images Using Sparse Reconstruction and Stacked Denoising Autoencoders. Lecture Notes in Computer Science, 2015, 9351, 383-390.	1.3	56
13	Large-Scale medical image analytics: Recent methodologies, applications and Future directions. Medical Image Analysis, 2016, 33, 98-101.	11.6	50
14	A homotopy-based sparse representation for fast and accurate shape prior modeling in liver surgical planning. Medical Image Analysis, 2015, 19, 176-186.	11.6	40
15	Deformable models with sparsity constraints for cardiac motion analysis. Medical Image Analysis, 2014, 18, 927-937.	11.6	34
16	Scalable histopathological image analysis via supervised hashing with multiple features. Medical Image Analysis, 2016, 34, 3-12.	11.6	32
17	Residual Attention Based Network for Hand Bone Age Assessment. , 2019, , .		29
18	Atlas-based liver segmentation and hepatic fat-fraction assessment for clinical trials. Computerized Medical Imaging and Graphics, 2015, 41, 80-92.	5.8	24

#	ARTICLE	IF	CITATIONS
19	Discriminative sparse representations for cervigram image segmentation. , 2010, , .		20
20	Computational modeling of cellular structures using conditional deep generative networks. Bioinformatics, 2019, 35, 2141-2149.	4.1	20
21	Scalable mammogram retrieval using Anchor Graph Hashing. , 2014, , .		18
22	Convolutional neural network initialized active contour model with adaptive ellipse fitting for nuclear segmentation on breast histopathological images. Journal of Medical Imaging, 2019, 6, 1.	1.5	16
23	Mining histopathological images via hashing-based scalable image retrieval. , 2014, , .		15
24	A robust automated markerless registration framework for neurosurgery navigation. International Journal of Medical Robotics and Computer Assisted Surgery, 2015, 11, 436-447.	2.3	15
25	Scalable Mammogram Retrieval Using Composite Anchor Graph Hashing With Iterative Quantization. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2450-2460.	8.3	14
26	Large Scale Medical Image Search via Unsupervised PCA Hashing. , 2013, , .		12
27	Large-scale Exploration of Neuronal Morphologies Using Deep Learning and Augmented Reality. Neuroinformatics, 2018, 16, 339-349.	2.8	12
28	Neuron-Miner: An Advanced Tool for Morphological Search and Retrieval in Neuroscientific Image Databases. Neuroinformatics, 2016, 14, 369-385.	2.8	11
29	Shape Prior Modeling Using Sparse Representation and Online Dictionary Learning. Lecture Notes in Computer Science, 2012, 15, 435-442.	1.3	11
30	Optimal object matching via convexification and composition. , 2011, , .		10
31	Meshless deformable models for 3D cardiac motion and strain analysis from tagged MRI. Magnetic Resonance Imaging, 2015, 33, 146-160.	1.8	10
32	A 3D Laplacian-driven parametric deformable model. , 2011, , .		9
33	Accurate segmentation of brain images into 34 structures combining a non-stationary adaptive statistical atlas and a multi-atlas with applications to Alzheimer'S disease. , 2013, 2013, 1202-1205.		9
34	An Automated and Robust Framework for Quantification of Muscle and Fat in the Thigh. , 2014, , .		7
35	Recognizing eyebrow and periodic head gestures using CRFs for non-manual grammatical marker detection in ASL. , 2013, , .		6
36	Computer-aided diagnosis of mammographic masses using vocabulary tree-based image retrieval. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
37	Fusing heterogeneous features for the image-guided diagnosis of intraductal breast lesions. , 2015, , .		5
38	LV surface reconstruction from sparse tMRI using Laplacian Surface Deformation and Optimization. , 2009, , .		4
39	Automatic Liver Segmentation and Hepatic Fat Fraction Assessment in MRI. , 2014, , .		4
40	Morphological analysis of the papillary muscles and the trabeculae. , 2014, , .		3
41	Interactive Exploration for Continuously Expanding Neuron Databases. Methods, 2017, 115, 100-109.	3.8	3
42	Robust and efficient 3D registration via depth map-based feature point matching in image-guided neurosurgery. , 2014, , .		2
43	Robust shape prior modeling based on Gaussian-Bernoulli restricted Boltzmann Machine. , 2014, , .		2
44	Leveraging coupled multi-index for scalable retrieval of mammographic masses. , 2015, , .		2
45	Maximum inner product search for morphological retrieval of large-scale neuron data. , 2016, , .		2
46	Mouse LV 3D motion and strain analysis using tagged MRI. , 2013, , .		1
47	Scalable sparse shape composition and its application to liver surgical planning. , 2014, , .		1
48	ADAPTIVE SHAPE PRIOR MODELING VIA ONLINE DICTIONARY LEARNING. Series in Computer Vision, 2014, , 59-74.	0.1	1
49	Deep feature representation for the computational analytics of 3D neuronal morphology. , 2018, , .		1
50	Efficient sparse shape composition with its applications in biomedical image analysis: An overview. , 2012, , .		0
51	Left endocardium segmentation using spatio-temporal Metamorphs. , 2012, , .		0
52	Multi-Pose and Occluded Facial Landmark Localization Via Sparse Shape Representation. International Journal on Artificial Intelligence Tools, 2015, 24, 1540019.	1.0	0