Shaoting Zhang

List of Publications by Year
in descending order

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	IDRiD: Diabetic Retinopathy â€" Segmentation and Grading Challenge. Medical Image Analysis, 2020, 59, 101561.	11.6	162
2	Residual Attention Based Network for Hand Bone Age Assessment. , 2019, , .		29
3	Computational modeling of cellular structures using conditional deep generative networks. Bioinformatics, 2019, 35, 2141-2149.	4.1	20
4	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
5	Large-scale Exploration of Neuronal Morphologies Using Deep Learning and Augmented Reality. Neuroinformatics, 2018, 16, 339-349.	2.8	12
6	Large-scale retrieval for medical image analytics: A comprehensive review. Medical Image Analysis, 2018, 43, 66-84.	11.6	151
7	Deep feature representation for the computational analytics of 3D neuronal morphology. , 2018, , .		1
8	Interactive Exploration for Continuously Expanding Neuron Databases. Methods, 2017, 115, 100-109.	3.8	3
9	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
10	Neuron-Miner: An Advanced Tool for Morphological Search and Retrieval in Neuroscientific Image Databases. Neuroinformatics, 2016, 14, 369-385.	2.8	11
11	Scalable histopathological image analysis via supervised hashing with multiple features. Medical Image Analysis, 2016, 34, 3-12.	11.6	32
12	Maximum inner product search for morphological retrieval of large-scale neuron data. , 2016, , .		2
13	Large-Scale medical image analytics: Recent methodologies, applications and Future directions. Medical Image Analysis, 2016, 33, 98-101.	11.6	50
14	High-throughput histopathological image analysis via robust cell segmentation and hashing. Medical Image Analysis, 2015, 26, 306-315.	11.6	78
15	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
16	Fusing heterogeneous features for the image-guided diagnosis of intraductal breast lesions. , 2015, , .		5
17	Computer-Aided Diagnosis of Mammographic Masses Using Scalable Image Retrieval. IEEE Transactions on Biomedical Engineering, 2015, 62, 783-792.	4.2	95
18	Multi-Pose and Occluded Facial Landmark Localization Via Sparse Shape Representation. International Journal on Artificial Intelligence Tools, 2015, 24, 1540019.	1.0	0

#	ARTICLE	IF	CITATIONS
19	Leveraging coupled multi-index for scalable retrieval of mammographic masses. , 2015, , .		2
20	Automated anatomical landmark detection ondistal femur surface using convolutional neural network. , 2015, , .		57
21	Meshless deformable models for 3D cardiac motion and strain analysis from tagged MRI. Magnetic Resonance Imaging, 2015, 33, 146-160.	1.8	10
22	Atlas-based liver segmentation and hepatic fat-fraction assessment for clinical trials. Computerized Medical Imaging and Graphics, 2015, 41, 80-92.	5.8	24
23	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
24	Towards Large-Scale Histopathological Image Analysis: Hashing-Based Image Retrieval. IEEE Transactions on Medical Imaging, 2015, 34, 496-506.	8.9	182
25	Query Specific Rank Fusion for Image Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 803-815.	13.9	143
26	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
27	Computer-aided diagnosis of mammographic masses using vocabulary tree-based image retrieval. , 2014, , .		5
28	Automatic Liver Segmentation and Hepatic Fat Fraction Assessment in MRI. , 2014, , .		4
29	Mining histopathological images via hashing-based scalable image retrieval. , 2014, , .		15
30	An Automated and Robust Framework for Quantification of Muscle and Fat in the Thigh. , 2014, , .		7
31	Scalable mammogram retrieval using Anchor Graph Hashing. , 2014, , .		18
32	Robust and efficient 3D registration via depth map-based feature point matching in image-guided neurosurgery. , 2014, , .		2
33	Deformable models with sparsity constraints for cardiac motion analysis. Medical Image Analysis, 2014, 18, 927-937.	11.6	34
34	Morphological analysis of the papillary muscles and the trabeculae. , 2014, , .		3
35	Scalable sparse shape composition and its application to liver surgical planning. , 2014, , .		1
36	Robust shape prior modeling based on Gaussian-Bernoulli restricted Boltzmann Machine. , 2014, , .		2

#	Article	IF	Citations
37	ADAPTIVE SHAPE PRIOR MODELING VIA ONLINE DICTIONARY LEARNING. Series in Computer Vision, 2014, , 59-74.	0.1	1
38	Large Scale Medical Image Search via Unsupervised PCA Hashing. , 2013, , .		12
39	Recognizing eyebrow and periodic head gestures using CRFs for non-manual grammatical marker detection in ASL. , 2013, , .		6
40	Mouse LV 3D motion and strain analysis using tagged MRI. , 2013, , .		1
41	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
42	Efficient sparse shape composition with its applications in biomedical image analysis: An overview. , 2012, , .		0
43	Automatic Image Annotation and Retrieval Using Group Sparsity. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 838-849.	5.0	85
44	Left endocardium segmentation using spatio-temporal Metamorphs. , 2012, , .		0
45	Deformable segmentation via sparse representation and dictionary learning. Medical Image Analysis, 2012, 16, 1385-1396.	11.6	140
46	Shape Prior Modeling Using Sparse Representation and Online Dictionary Learning. Lecture Notes in Computer Science, 2012, 15, 435-442.	1.3	11
47	Query Specific Fusion for Image Retrieval. Lecture Notes in Computer Science, 2012, , 660-673.	1.3	105
48	A 3D Laplacian-driven parametric deformable model. , 2011, , .		9
49	Optimal object matching via convexification and composition. , 2011, , .		10
50	Discriminative sparse representations for cervigram image segmentation. , 2010, , .		20
51	Automatic image annotation using group sparsity. , 2010, , .		132
52	LV surface reconstruction from sparse tMRI using Laplacian Surface Deformation and Optimization. , 2009, , .		4