

Lixu Gu

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

569
citations

623188

14
h-index

713013

21
g-index

62
all docs

62
docs citations

62
times ranked

808
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-label ocular disease classification with a dense correlation deep neural network. <i>Biomedical Signal Processing and Control</i> , 2021, 63, 102167.	3.5	32
2	Target localization during respiration motion based on LSTM: A pilot study on robotic puncture system. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2247.	1.2	2
3	Collaborative Multi-View Convolutions With Gating For Accurate And Fast Volumetric Medical Image Segmentation. , 2021, , .		0
4	SS-CADA: A Semi-Supervised Cross-Anatomy Domain Adaptation for Coronary Artery Segmentation. , 2021, , .		7
5	Self-speculation of clinical features based on knowledge distillation for accurate ocular disease classification. <i>Biomedical Signal Processing and Control</i> , 2021, 67, 102491.	3.5	13
6	Surgical instrument segmentation method based on improved MobileNetV2 network. , 2021, , .		0
7	Prediction of late displacement of the globe in orbital blowout fractures. <i>Acta Ophthalmologica</i> , 2020, 98, e197-e202.	0.6	2
8	Spline curve deformation model with prior shapes for identifying adhesion boundaries between large lung tumors and tissues around lungs in CT images. <i>Medical Physics</i> , 2020, 47, 1011-1020.	1.6	2
9	Weakly supervised vessel segmentation in X-ray angiograms by self-paced learning from noisy labels with suggestive annotation. <i>Neurocomputing</i> , 2020, 417, 114-127.	3.5	23
10	Generation of a local lung respiratory motion model using a weighted sparse algorithm and motion prior-based registration. <i>Computers in Biology and Medicine</i> , 2020, 123, 103913.	3.9	5
11	Analyzing Different Unstated Goal Constraints on Reinforcement Learning Algorithm for Reacher Task in the Robotic Scrub Nurse Application. , 2020, , .		1
12	A statistical weighted sparse-based local lung motion modelling approach for model-driven lung biopsy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1279-1290.	1.7	0
13	Dense Correlation Network for Automated Multi-Label Ocular Disease Detection with Paired Color Fundus Photographs. , 2020, , .		15
14	Classification of Ocular Diseases Employing Attention-Based Unilateral and Bilateral Feature Weighting and Fusion. , 2020, , .		8
15	Automatic detection of coronary artery stenosis by convolutional neural network with temporal constraint. <i>Computers in Biology and Medicine</i> , 2020, 118, 103657.	3.9	38
16	The trend of artificial intelligence method in computer aided diagnosis. <i>Scientia Sinica Vitae</i> , 2020, 50, 1321-1334.	0.1	2
17	Deep Co-Training Active Learning for Mammographic Images Classification. , 2020, , .		2
18	Mammographic Image Classification System via Active Learning. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 569-582.	1.0	9

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19	Multi-sequence myocardium segmentation with cross-constrained shape and neural network-based initialization. Computerized Medical Imaging and Graphics, 2019, 71, 49-57.	3.5	11
20	A novel active learning framework for classification: Using weighted rank aggregation to achieve multiple query criteria. Pattern Recognition, 2019, 93, 581-602.	5.1	16
21	A novel robotic system for vascular intervention: principles, performances, and applications. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 671-683.	1.7	16
22	Flow instability detected in ruptured versus unruptured cerebral aneurysms at the internal carotid artery. Journal of Biomechanics, 2018, 72, 187-199.	0.9	23
23	Vessel Enhancement Based on Length-constrained Hessian Information. , 2018, , .		4
24	Minimization of annotation work: diagnosis of mammographic masses via active learning. Physics in Medicine and Biology, 2018, 63, 115003.	1.6	5
25	Vesselness-constrained robust PCA for vessel enhancement in x-ray coronary angiograms. Physics in Medicine and Biology, 2018, 63, 155019.	1.6	5
26	Myocardium segmentation from DE MRI with guided random walks and sparse shape representation. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1579-1590.	1.7	2
27	A novel remote-controlled robotic system for cerebrovascular intervention. International Journal of Medical Robotics and Computer Assisted Surgery, 2018, 14, e1943.	1.2	23
28	Measurement of Intra-Orbital Structures in Normal Chinese Adults Based on a Three-Dimensional Coordinate System. Current Eye Research, 2018, 43, 1477-1483.	0.7	12
29	Myocardium Segmentation From DE MRI Using Multicomponent Gaussian Mixture Model and Coupled Level Set. IEEE Transactions on Biomedical Engineering, 2017, 64, 2650-2661.	2.5	15
30	Blood flow-induced physically based guidewire simulation for vascular intervention training. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1571-1583.	1.7	4
31	BEM-based simulation of lung respiratory deformation for CT-guided biopsy. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1585-1597.	1.7	6
32	Lung respiration motion modeling: a sparse motion field presentation method using biplane x-ray images. Physics in Medicine and Biology, 2017, 62, 7855-7873.	1.6	7
33	A pulmonary deformation registration framework for biplane X-ray and CT using Sparse Motion Composition. , 2017, , .		2
34	I don't know: Double-strategies based active learning for mammographie mass classification. , 2017, , .		1
35	Safety protection based on electromagnetic navigation in robot-assisted vascular interventional surgery. , 2017, , .		0
36	CT-ultrasound registration for electromagnetic navigation of cardiac intervention. , 2017, , .		0

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37	A Wavelet Frame Method with Shape Prior for Ultrasound Video Segmentation. SIAM Journal on Imaging Sciences, 2016, 9, 495-519.	1.3	7
38	Exploring potential association between flow instability and rupture in patients with matched-pairs of ruptured and unruptured intracranial aneurysms. BioMedical Engineering OnLine, 2016, 15, 166.	1.3	10
39	Cardiovascular-interventional-surgery virtual training platform and its preliminary evaluation. International Journal of Medical Robotics and Computer Assisted Surgery, 2015, 11, 375-387.	1.2	20
40	A robust automated markerless registration framework for neurosurgery navigation. International Journal of Medical Robotics and Computer Assisted Surgery, 2015, 11, 436-447.	1.2	15
41	The Clinical Feasibility of 2-D US and Computed Tomography Registration Technology for Human Liver Imaging. Journal of Medical Imaging and Health Informatics, 2015, 5, 1509-1512.	0.2	0
42	Target vessel identification in endoscopic coronary artery bypass grafting. , 2015, , .		0
43	Sparse group composition for robust left ventricular epicardium segmentation. Computerized Medical Imaging and Graphics, 2015, 46, 56-63.	3.5	4
44	Pulmonary nodule detection in CT images based on shape constraint CV model. Medical Physics, 2015, 42, 1241-1254.	1.6	29
45	A homotopy-based sparse representation for fast and accurate shape prior modeling in liver surgical planning. Medical Image Analysis, 2015, 19, 176-186.	7.0	40
46	Real-time aortic valve segmentation from transesophageal echocardiography sequence. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 447-458.	1.7	3
47	Semiautomatic segmentation of aortic valve from sequenced ultrasound image using a novel shape-constraint GCV model. Medical Physics, 2014, 41, 072901.	1.6	2
48	Robust and efficient 3D registration via depth map-based feature point matching in image-guided neurosurgery. , 2014, , .		2
49	Myocardium segmentation combining T2 and DE MRI using Multi-Component Bivariate Gaussian mixture model. , 2014, , .		2
50	A robust and real-time vascular intervention simulation based on Kirchhoff elastic rod. Computerized Medical Imaging and Graphics, 2014, 38, 735-743.	3.5	23
51	Scalable sparse shape composition and its application to liver surgical planning. , 2014, , .		1
52	A pilot study on magnetic navigation for transcatheter aortic valve implantation using dynamic aortic model and US image guidance. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 677-690.	1.7	5
53	Intra-Operative 2-D Ultrasound and Dynamic 3-D Aortic Model Registration for Magnetic Navigation of Transcatheter Aortic Valve Implantation. IEEE Transactions on Medical Imaging, 2013, 32, 2152-2165.	5.4	15
54	A hybrid deformable model for real-time surgical simulation. Computerized Medical Imaging and Graphics, 2012, 36, 356-365.	3.5	34

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55	Validation and prediction of traditional Chinese physical operation on spinal disease using multiple deformation models. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 201-208.	1.7	2
56	An advanced hybrid cutting method with an improved state machine for surgical simulation. Computerized Medical Imaging and Graphics, 2009, 33, 63-71.	3.5	7
57	Computer-assisted Preoperative Planning and Surgical Navigation System in Dental Implantology. , 2007, , .		7
58	Virtual Surgery Deformable Modelling Employing GPU Based Computation. , 2007, , .		6
59	3D Segmentation of Medical Images Using a Fast Multistage Hybrid Algorithm. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 23-31.	1.7	12
60	Novel Multistage Three-Dimensional Medical Image Segmentation: Methodology and Validation. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 740-748.	3.6	8
61	Robust 3D organ segmentation using a fast hybrid algorithm. International Congress Series, 2004, 1268, 69-74.	0.2	2