Shun Miao

List of Publications by Year
in descending order

		933264	839398
31 papers	**821** citations	**10** h-index	**18** g-index
32 all docs	**32** docs citations	**32** times ranked	**1092** citing authors

#	Article	IF	Citations
1	A CNN Regression Approach for Real-Time 2D/3D Registration. IEEE Transactions on Medical Imaging, 2016, 35, 1352-1363.	5.4	359
2	Automated bone mineral density prediction and fracture risk assessment using plain radiographs via deep learning. Nature Communications, 2021, 12, 5472.	5.8	57
3	A Review of Recent Advances in Registration Techniques Applied to Minimally Invasive Therapy. IEEE Transactions on Multimedia, 2013, 15, 983-1000.	5.2	55
4	Real-time 2D/3D registration via CNN regression. , 2016, , .		52
5	Structured Landmark Detection via Topology-Adapting Deep Graph Learning. Lecture Notes in Computer Science, 2020, , 266-283.	1.0	52
6	Unsupervised X-ray image segmentation with task driven generative adversarial networks. Medical Image Analysis, 2020, 62, 101664.	7.0	46
7	A scalable physician-level deep learning algorithm detects universal trauma on pelvic radiographs. Nature Communications, 2021, 12, 1066.	5.8	40
8	Pairwise domain adaptation module for CNN-based 2-D/3-D registration. Journal of Medical Imaging, 2018, 5, 1.	0.8	35
9	A hybrid method for 2-D/3-D registration between 3-D volumes and 2-D angiography for trans-catheter aortic valve implantation (TAVI). , 2011, , .		15
10	Automatic and efficient contrast-based 2-D/3-D fusion for trans-catheter aortic valve implantation (TAVI). Computerized Medical Imaging and Graphics, 2013, 37, 150-161.	3.5	14
11	Contour Transformer Network for One-Shot Segmentation of Anatomical Structures. IEEE Transactions on Medical Imaging, 2021, 40, 2672-2684.	5.4	14
12	Learning CNNs with Pairwise Domain Adaption for Real-Time 6DoF Ultrasound Transducer Detection and Tracking from X-Ray Images. Lecture Notes in Computer Science, 2017, , 646-654.	1.0	10
13	System and Method for 3-D/3-D Registration between Non-contrast-enhanced CBCT and Contrast-Enhanced CT for Abdominal Aortic Aneurysm Stenting. Lecture Notes in Computer Science, 2013, 16, 380-387.	1.0	10
14	3D face recognition based on evolution of iso-geodesic distance curves. , 2010, , .		8
15	Automatic pose initialization for accurate 2D/3D registration applied to abdominal aortic aneurysm endovascular repair. , 2012, , .		7
16	Toward smart utilization of two X-ray images for 2-D/3-D registration applied to abdominal aortic aneurysm interventions. Computers and Electrical Engineering, 2013, 39, 1485-1498.	3.0	7
17	Robust 2-D/3-D registration of CT volumes with contrast-enhanced X-ray sequences in electrophysiology based on a weighted similarity measure and sequential subspace optimization. , 2013, , .		6
18	Learning to Segment Anatomical Structures Accurately from One Exemplar. Lecture Notes in Computer Science, 2020, , 678-688.	1.0	5

#	ARTICLE	IF	CITATIONS
19	Agent-Based Methods for Medical Image Registration. Advances in Computer Vision and Pattern Recognition, 2019, , 323-345.	0.9	5
20	Dynamic MR-based respiratory motion compensation for hybrid PET/MR system. , 2014, , .		4
21	Toward Accurate and Robust 2-D/3-D Registration of Implant Models to Single-Plane Fluoroscopy. Lecture Notes in Computer Science, 2013, , 97-106.	1.0	4
22	Real-time 6DoF pose recovery from X-ray images using library-based DRR and hybrid optimization. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1211-1220.	1.7	3
23	Convolutional Neural Networks for Robust and Real-Time 2-D/3-D Registration. , 2017, , 271-296.		3
24	Intensity-Based 3D-2D Mesh-to-Image Registration Using Mesh-Based Digitally Reconstructed Radiography. Lecture Notes in Computer Science, 2013, , 86-96.	1.0	3
25	Robustness and expression independence in 3D face recognition. , 2011, , .		2
26	Weather-clustering based strategy design for dynamic demand response building HVAC control. , 2012, , .		2
27	Visual check and automatic compensation for patient movement during image-guided Abdominal Aortic Aneurysm (AAA) stenting. , 2012, , .		1
28	Model-to-volume registration for endovascular aneurysm repair. , 2014, , .		1
29	Scatter to volume registration for model-free respiratory motion estimation from dynamic MRIs. Computerized Medical Imaging and Graphics, 2016, 52, 72-81.	3.5	1
30	Non-parametric orthogonal slice to volume deformable registration: Application to PET/MR respiratory motion compensation. , 2014, , .		0
31	MRI-based motion estimation via scatter to volume registration. , 2015, , .		0