Rui Liao

List of Publications by Year
in descending order

22 papers	910 citations	759055 12 h-index	887953 17 g-index
24 all docs	24 docs citations	24 times ranked	1264 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	Automatic Aorta Segmentation and Valve Landmark Detection in C-Arm CT for Transcatheter Aortic Valve Implantation. IEEE Transactions on Medical Imaging, 2012, 31, 2307-2321.	5.4	83
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	An information-theoretic criterion for intrasubject alignment of FMRI time series: motion corrected independent component analysis. IEEE Transactions on Medical Imaging, 2005, 24, 29-44.	5.4	51
6	3-D reconstruction of the coronary artery tree from multiple views of a rotational X-ray angiography. International Journal of Cardiovascular Imaging, 2010, 26, 733-749.	0.7	50
7	Automatic Aorta Segmentation and Valve Landmark Detection in C-Arm CT: Application to Aortic Valve Implantation. Lecture Notes in Computer Science, 2010, 13, 476-483.	1.0	41
8	3-D Respiratory Motion Compensation during EP Procedures by Image-Based 3-D Lasso Catheter Model Generation and Tracking. Lecture Notes in Computer Science, 2009, 12, 394-401.	1.0	36
9	Pairwise domain adaptation module for CNN-based 2-D/3-D registration. Journal of Medical Imaging, 2018, 5, 1.	0.8	35
10	System to Guide Transcatheter Aortic Valve Implantations Based on Interventional C-Arm CT Imaging. Lecture Notes in Computer Science, 2010, 13, 375-382.	1.0	28
11	An Efficient Graph-Based Deformable 2D/3D Registration Algorithm with Applications for Abdominal Aortic Aneurysm Interventions. Lecture Notes in Computer Science, 2010, , 561-570.	1.0	24
12	Isolation and minimization of head motion-induced signal variations in fMRI data using independent component analysis. Magnetic Resonance in Medicine, 2006, 55, 1396-1413.	1.9	20
13	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
14	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
15	Curve-based 2D-3D registration of coronary vessels for image guided procedure. Proceedings of SPIE, 2009, , .	0.8	12
16	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
17	2-D/3-D registration of C-Arm CT volumes with fluoroscopic images by spines for patient movement correction during electrophysiology. , 2010, , .		7
18	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

#	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	Convolutional Neural Networks for Robust and Real-Time 2-D/3-D Registration. , 2017, , 271-296.		3
21	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
22	Rui Liao's work on patient-specific 3-D model guidance for interventional and hybrid-operating-room applications. World Journal of Radiology, 2011, 3, 159-68.	0.5	0