Runze Han

List of Publications by Year
in descending order

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Version: 2024-02-01

26 papers	215 citations	1163117 8 h-index	1058476 14 g-index
26 all docs	26 docs citations	26 times ranked	191 citing authors

#	Article	IF	Citations
1	Atlas-based automatic planning and 3Dâ€“2D fluoroscopic guidance in pelvic trauma surgery. Physics in Medicine and Biology, 2019, 64, 095022.	3.0	25
2	Automatic pedicle screw planning using atlas-based registration of anatomy and reference trajectories. Physics in Medicine and Biology, 2019, 64, 165020.	3.0	24
3	A mobile isocentric Câ€arm for intraoperative coneâ€beam CT: Technical assessment of dose and 3D imaging performance. Medical Physics, 2020, 47, 958-974.	3.0	21
4	Fracture reduction planning and guidance in orthopaedic trauma surgery via multi-body image registration. Medical Image Analysis, 2021, 68, 101917.	11.6	21
5	Deformable MR-CT image registration using an unsupervised, dual-channel network for neurosurgical guidance. Medical Image Analysis, 2022, 75, 102292.	11.6	21
6	Planning, guidance, and quality assurance of pelvic screw placement using deformable image registration. Physics in Medicine and Biology, 2017, 62, 9018-9038.	3.0	14
7	A line fiducial method for geometric calibration of cone-beam CT systems with diverse scan trajectories. Physics in Medicine and Biology, 2018, 63, 025030.	3.0	14
8	Multi-body 3Dâ€“2D registration for image-guided reduction of pelvic dislocation in orthopaedic trauma surgery. Physics in Medicine and Biology, 2020, 65, 135009.	3.0	11
9	Joint synthesis and registration network for deformable MR-CBCT image registration for neurosurgical guidance. Physics in Medicine and Biology, 2022, 67, 125008.	3.0	9
10	Effects of Image Quality on the Fundamental Limits of Image Registration Accuracy. IEEE Transactions on Medical Imaging, 2017, 36, 1997-2009.	8.9	8
11	SpineCloud: image analytics for predictive modeling of spine surgery outcomes. Journal of Medical Imaging, 2020, 7, 1.	1.5	8
12	Real-time, image-based slice-to-volume registration for ultrasound-guided spinal intervention. Physics in Medicine and Biology, 2018, 63, 215016.	3.0	7
13	A momentum-based diffeomorphic demons framework for deformable MR-CT image registration. Physics in Medicine and Biology, 2018, 63, 215006.	3.0	6
14	Fundamental limits of image registration performance: effects of image noise and resolution in CT-guided interventions. Proceedings of SPIE, 2017, 10135, .	0.8	5
15	Clinical Translation of the LevelCheck Decision Support Algorithm for Target Localization in Spine Surgery. Annals of Biomedical Engineering, 2018, 46, 1548-1557.	2.5	3
16	A Statistical Model for Rigid Image Registration Performance: The Influence of Soft-Tissue Deformation as a Confounding Noise Source. IEEE Transactions on Medical Imaging, 2019, 38, 2016-2027.	8.9	3
17	Automatic analysis of global spinal alignment from simple annotation of vertebral bodies. Journal of Medical Imaging, 2020, 7, 1.	1.5	3
18	Learning-based deformable image registration: effect of statistical mismatch between train and test images. Journal of Medical Imaging, 2019, 6, 1.	1.5	3

#	Article	IF	Citations
19	Pre-Clinical Development of Robot-Assisted Ventriculoscopy for 3-D Image Reconstruction and Guidance of Deep Brain Neurosurgery. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 28-37.	3.2	3
20	Development of a fluoroscopically guided robotic assistant for instrument placement in pelvic trauma surgery. Journal of Medical Imaging, 2021, 8, 035001.	1.5	2
21	Multi-body registration for fracture reduction in orthopaedic trauma surgery. , 2020, , .		2
22	Clustered iterative sub-atlas registration for improved deformable registration using statistical shape models. , 2018, , .		1
23	Deformable registration of MRI to intraoperative cone-beam CT of the brain using a joint synthesis and registration network. , 2022, , .		1
24	Real-time image-based 3D-2D registration for ultrasound-guided spinal interventions. , 2018, , .		0
25	Automatic definition of surgical trajectories and acceptance window in pelvic trauma surgery using deformable registration. , 2018, , .		0
26	A statistical model for image registration performance: effect of tissue deformation. , 2018, , .		0