

Guangzhi Wang

List of Publications by Year in descending order

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80
papers

1,011
citations

471509

17
h-index

477307

29
g-index

86
all docs

86
docs citations

86
times ranked

1250
citing authors

#	ARTICLE	IF	CITATIONS
1	A CT Image-Based Virtual Sensing Method to Estimate Bone Drilling Force for Surgical Robots. IEEE Transactions on Biomedical Engineering, 2022, 69, 871-881.	4.2	3
2	A Preliminary Exploration to Make Stereotactic Surgery Robots Aware of the Semantic 2D/3D Working Scene. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 17-27.	3.2	3
3	High-fidelity fast volumetric brain MRI using synergistic wave-controlled aliasing in parallel imaging and a hybrid denoising generative adversarial network (HDnGAN). Medical Physics, 2022, 49, 1000-1014.	3.0	9
4	Development and Validation of an Artificial Intelligence Preoperative Planning System for Total Hip Arthroplasty. Frontiers in Medicine, 2022, 9, 841202.	2.6	8
5	Cerebrovascular segmentation in phase-contrast magnetic resonance angiography by multi-feature fusion and vessel completion. Computerized Medical Imaging and Graphics, 2022, 98, 102070.	5.8	8
6	A Quantitative Method for Prediction of True Lumen Recanalization in Chronic Total Occlusion of the Superficial Femoral Artery. Annals of Vascular Surgery, 2021, 77, 101-108.	0.9	0
7	A convenient and stable vertebrae instance segmentation method for transforaminal endoscopic surgery planning. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1263-1276.	2.8	6
8	Automatic Radiofrequency Ablation Planning for Liver Tumors With Multiple Constraints Based on Set Covering. IEEE Transactions on Medical Imaging, 2020, 39, 1459-1471.	8.9	22
9	Design of a robot-assisted system for transforaminal percutaneous endoscopic lumbar surgeries: study protocol. Journal of Orthopaedic Surgery and Research, 2020, 15, 479.	2.3	12
10	Multiple objective planning for thermal ablation of liver tumors. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1775-1786.	2.8	7
11	A "eye-in-body" integrated surgery robot system for stereotactic surgery. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 2123-2135.	2.8	4
12	A method for ultrasound probe calibration based on arbitrary wire phantom. Cogent Engineering, 2019, 6, .	2.2	12
13	Fully automatic liver segmentation in CT images using modified graph cuts and feature detection. Computers in Biology and Medicine, 2018, 95, 198-208.	7.0	41
14	An automatic markerless registration method for neurosurgical robotics based on an optical camera. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 253-265.	2.8	19
15	An X-ray-free method to accurately identify the elbow flexion-extension axis for the placement of a hinged external fixator. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 375-387.	2.8	3
16	Intelligent HMI in Orthopedic Navigation. Advances in Experimental Medicine and Biology, 2018, 1093, 207-224.	1.6	8
17	Cerebrovascular segmentation of TOF-MRA based on seed point detection and multiple-feature fusion. Computerized Medical Imaging and Graphics, 2018, 69, 1-8.	5.8	11
18	Robust extraction for low-contrast liver tumors using modified adaptive likelihood estimation. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1565-1578.	2.8	5

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19	Robust liver vessel extraction using 3D U-Net with variant dice loss function. Computers in Biology and Medicine, 2018, 101, 153-162.	7.0	117
20	Vascular segmentation of head phase-contrast magnetic resonance angiograms using grayscale and shape features. Computer Methods and Programs in Biomedicine, 2017, 142, 157-166.	4.7	11
21	A novel objective method for assessing high-contrast spatial resolution in CT based on the Rayleigh criterion. Medical Physics, 2017, 44, 460-469.	3.0	3
22	High-resolution diffusion tensor imaging in cervical spondylotic myelopathy: a preliminary follow-up study. NMR in Biomedicine, 2017, 30, e3769.	2.8	13
23	A surgical robot with augmented reality visualization for stereoelectroencephalography electrode implantation. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1355-1368.	2.8	26
24	Shape context and projection geometry constrained vasculature matching for 3D reconstruction of coronary artery. Neurocomputing, 2016, 195, 65-73.	5.9	11
25	A motion compensation method for bi-plane robot-assisted internal fixation surgery of a femur neck fracture. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 942-948.	1.8	8
26	Ultrasound fusion image error correction using subject-specific liver motion model and automatic image registration. Computers in Biology and Medicine, 2016, 79, 99-109.	7.0	7
27	Local structure orientation descriptor based on intra-image similarity for multimodal registration of liver ultrasound and MR images. Computers in Biology and Medicine, 2016, 76, 69-79.	7.0	10
28	Adaptive Ridge Point Refinement for Seeds Detection in X-Ray Coronary Angiogram. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-10.	1.3	7
29	Effect of Joint Line Elevation after Posterior-stabilized and Cruciate-retaining Total Knee Arthroplasty on Clinical Function and Kinematics. Chinese Medical Journal, 2015, 128, 2866-2872.	2.3	21
30	Target visibility enhancement for C-arm cone beam CT-fluoroscopy-guided hepatic needle placement: implementation and accuracy evaluation. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 263-273.	2.8	1
31	Subject-specific real-time respiratory liver motion compensation method for ultrasound-MRI/CT fusion imaging. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 517-529.	2.8	12
32	Metrology applications of quantitative evaluation methods in CT phantom images. , 2015, , .		0
33	A stereotaxic image-guided surgical robotic system for depth electrode insertion. , 2014, 2014, 6167-70.		5
34	2D/4D marker-free tumor tracking using 4D CBCT as the reference image. Physics in Medicine and Biology, 2014, 59, 2219-2233.	3.0	13
35	In vivo tomographic imaging of lung colonization of tumour in mouse with simultaneous fluorescence and X-ray CT. Journal of Biophotonics, 2014, 7, 110-116.	2.3	7
36	An in-vitro biomechanical study of different fixation techniques for the extended trochanteric osteotomy in revision THA. Journal of Orthopaedic Surgery and Research, 2013, 8, 7.	2.3	20

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37	Cerebrovascular segmentation and planning of depth electrode insertion for epilepsy surgery. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 905-916.	2.8	9
38	Cortical vessel imaging and visualization for image guided depth electrode insertion. Computerized Medical Imaging and Graphics, 2013, 37, 123-130.	5.8	5
39	A respiration correction method for real-time ultrasound image fusion with pre-acquired 3D dataset. , 2013, , .		0
40	An in Vivo Study of the Dynamic Q Angle of the Knee Joint during Flexion. IFMBE Proceedings, 2013, , 234-237.	0.3	2
41	An improved FDK algorithm using camera calibration technique for reconstruction of misaligned CBCT system. , 2012, 2012, 5991-4.		1
42	The accuracy and repeatability of an automatic 2D→3D fluoroscopic image-model registration technique for determining shoulder joint kinematics. Medical Engineering and Physics, 2012, 34, 1303-1309.	1.7	47
43	Segmentation of carotid plaque using multicontrast 3D gradient echo MRI. Journal of Magnetic Resonance Imaging, 2012, 35, 812-819.	3.4	25
44	An image-free surgical navigation system for Total Knee Arthroplasty. , 2011, , .		2
45	A robust registration method for real-time ultrasound image fusion with pre-acquired 3D dataset. , 2011, 2011, 2638-41.		7
46	Hardware acceleration for motion tracking system used in image-guided surgery. , 2010, , .		2
47	In vitro kinematic measurements of the patellar tendon in two different types of posterior-stabilized total knee arthroplasties. , 2010, 2010, 3938-41.		6
48	Accuracy of Fiducial Marker Based Multimodal Image Registration in Image Guided Surgery. IFMBE Proceedings, 2010, , 1538-1541.	0.3	1
49	Tension and motion measurement for extended trochanteric osteotomy with different fixation methods. , 2009, 2009, 5255-8.		3
50	The study of fiducial localization error of image in point-based registration. , 2009, 2009, 5088-91.		10
51	The Geometry Parameters Measurement in the Computer Aided Knee Replacement Surgery System. , 2009, , .		2
52	A New System for Soft-Tissue Balance Measurement in Total Knee Replacement. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3627-3632.	4.7	1
53	An approach to the correspondence problem in the 1-D optical transducers tracking system. Proceedings of SPIE, 2009, , .	0.8	3
54	Optimal delivery systems for bone morphogenetic proteins in orthopedic applications should model initial tissue repair structures by using a heparin-incorporated fibrin→fibronectin matrix. Medical Hypotheses, 2008, 71, 374-378.	1.5	30

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55	A Method for Widening the Range of Force Measurement and Gap Adjustment in the Total Knee Replacement. , 2008, , .		0
56	Minimally Invasive Electrical Impedance Measurements of Ovum Exemplified Using Microelectrodes. , 2007, , .		1
57	Theoretical Analytical Flow Model in Hollow Microneedles for Non-forced Fluid Extraction. , 2006, , .		1
58	Minimally Invasive Electrical Impedance Tomography - Promising Way to Decrease Diagnostics Uncertainty. , 2006, , .		3
59	Using noninvasive NIRS to evaluate the metabolic capability of infant brain. , 2005, , .		0
60	Effects of Muscle Electrical Stimulation on Bone Mineral Density in the Hindlimb Bones of the Tail-Suspended Rats. , 2005, 2006, 567-8.		1
61	A Research on The Hospital Intranet-Based Three-Dimensional Image Assisted Diagnosis System. , 2005, 2005, 5165-7.		0
62	A Trial of Measuring the Displacement of Tibial Fragments with Pinless External Fixator. , 2005, 2005, 2002-5.		1
63	Assessment of the hypoxicâ€“ischemic encephalopathy in neonates using non-invasive near-infrared spectroscopy. Physiological Measurement, 2004, 25, 749-761.	2.1	26
64	In vivo and Noninvasive Three-Dimensional Patellar Tracking Induced by Individual Heads of Quadriceps. Medicine and Science in Sports and Exercise, 2004, 36, 93-101.	0.4	71
65	Aberration analysis and adjustment of nonspherical lens in the linear CCDs three-dimensional measurement system. , 2004, , .		2
66	In vivo load sharing among the quadriceps components. Journal of Orthopaedic Research, 2003, 21, 565-571.	2.3	86
67	<title>Near-infrared spectroscopic assessment of oxygen delivery to free flaps on monkeys following vascular occlusions and inhalation of pure oxygen</title>. , 2002, 4536, 28.		0
68	Assessment of blood and oxygen delivery to flaps of rhesus using near infrared steady-state spectroscopy. Science Bulletin, 2002, 47, 1797-1802.	9.0	3
69	Assessment of blood and oxygen delivery to flaps of rhesus using near infrared steady-state spectroscopy. Science Bulletin, 2002, 47, 1797.	1.7	4
70	Muscle strength in knee varus and valgus. Medicine and Science in Sports and Exercise, 2001, 33, 1194-1199.	0.4	28
71	Dynamic and static control of the human knee joint in abductionâ€“adduction. Journal of Biomechanics, 2001, 34, 1107-1115.	2.1	64
72	Stiffness, viscosity, and upper-limb inertia about the glenohumeral abduction axis. Journal of Orthopaedic Research, 2000, 18, 94-100.	2.3	22

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73	Hyperactive tendon reflexes in spastic multiple sclerosis: Measures and mechanisms of action. Archives of Physical Medicine and Rehabilitation, 2000, 81, 901-909.	0.9	53
74	Analysis of the sensitivity of reflectance near-infrared tissue oximeter using the methods of simulation and experiment. , 1999, , .		1
75	Dynamic and static properties of the human knee joint in axial rotation. , 0, , .		3
76	Gripping force sensory feedback for a myoelectrically controlled forearm prosthesis. , 0, , .		4
77	Passive and active mechanical properties of the human knee joint in abduction-adduction. , 0, , .		0
78	Identification of time-varying joint dynamics using wavelets. , 0, , .		0
79	Reflex and intrinsic mechanical changes in spastic limbs of MS patients. , 0, , .		0
80	Dynamics of patellar tendon reflex in spastic multiple sclerosis patients. , 0, , .		2