

Guangzhi Wang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Robust liver vessel extraction using 3D U-Net with variant dice loss function. <i>Computers in Biology and Medicine</i> , 2018, 101, 153-162.	7.0	117
2	In vivo load sharing among the quadriceps components. <i>Journal of Orthopaedic Research</i> , 2003, 21, 565-571.	2.3	86
3	In vivo and Noninvasive Three-Dimensional Patellar Tracking Induced by Individual Heads of Quadriceps. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 93-101.	0.4	71
4	Dynamic and static control of the human knee joint in abduction–adduction. <i>Journal of Biomechanics</i> , 2001, 34, 1107-1115.	2.1	64
5	Hyperactive tendon reflexes in spastic multiple sclerosis: Measures and mechanisms of action. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 901-909.	0.9	53
6	The accuracy and repeatability of an automatic 2D–3D fluoroscopic image-model registration technique for determining shoulder joint kinematics. <i>Medical Engineering and Physics</i> , 2012, 34, 1303-1309.	1.7	47
7	Fully automatic liver segmentation in CT images using modified graph cuts and feature detection. <i>Computers in Biology and Medicine</i> , 2018, 95, 198-208.	7.0	41
8	Optimal delivery systems for bone morphogenetic proteins in orthopedic applications should model initial tissue repair structures by using a heparin-incorporated fibrin–fibronectin matrix. <i>Medical Hypotheses</i> , 2008, 71, 374-378.	1.5	30
9	Muscle strength in knee varus and valgus. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 1194-1199.	0.4	28
10	Assessment of the hypoxic–ischemic encephalopathy in neonates using non-invasive near-infrared spectroscopy. <i>Physiological Measurement</i> , 2004, 25, 749-761.	2.1	26
11	A surgical robot with augmented reality visualization for stereoelectroencephalography electrode implantation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1355-1368.	2.8	26
12	Segmentation of carotid plaque using multicontrast 3D gradient echo MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 812-819.	3.4	25
13	Stiffness, viscosity, and upper-limb inertia about the glenohumeral abduction axis. <i>Journal of Orthopaedic Research</i> , 2000, 18, 94-100.	2.3	22
14	Automatic Radiofrequency Ablation Planning for Liver Tumors With Multiple Constraints Based on Set Covering. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1459-1471.	8.9	22
15	Effect of Joint Line Elevation after Posterior-stabilized and Cruciate-retaining Total Knee Arthroplasty on Clinical Function and Kinematics. <i>Chinese Medical Journal</i> , 2015, 128, 2866-2872.	2.3	21
16	An in-vitro biomechanical study of different fixation techniques for the extended trochanteric osteotomy in revision THA. <i>Journal of Orthopaedic Surgery and Research</i> , 2013, 8, 7.	2.3	20
17	An automatic markerless registration method for neurosurgical robotics based on an optical camera. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 253-265.	2.8	19
18	2D/4D marker-free tumor tracking using 4D CBCT as the reference image. <i>Physics in Medicine and Biology</i> , 2014, 59, 2219-2233.	3.0	13

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19	High-resolution diffusion tensor imaging in cervical spondylotic myelopathy: a preliminary follow-up study. <i>NMR in Biomedicine</i> , 2017, 30, e3769.	2.8	13
20	Subject-specific real-time respiratory liver motion compensation method for ultrasound-MRI/CT fusion imaging. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 517-529.	2.8	12
21	A method for ultrasound probe calibration based on arbitrary wire phantom. <i>Cogent Engineering</i> , 2019, 6, .	2.2	12
22	Design of a robot-assisted system for transforaminal percutaneous endoscopic lumbar surgeries: study protocol. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 479.	2.3	12
23	Shape context and projection geometry constrained vasculature matching for 3D reconstruction of coronary artery. <i>Neurocomputing</i> , 2016, 195, 65-73.	5.9	11
24	Vascular segmentation of head phase-contrast magnetic resonance angiograms using grayscale and shape features. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 142, 157-166.	4.7	11
25	Cerebrovascular segmentation of TOF-MRA based on seed point detection and multiple-feature fusion. <i>Computerized Medical Imaging and Graphics</i> , 2018, 69, 1-8.	5.8	11
26	The study of fiducial localization error of image in point-based registration. , 2009, 2009, 5088-91.		10
27	Local structure orientation descriptor based on intra-image similarity for multimodal registration of liver ultrasound and MR images. <i>Computers in Biology and Medicine</i> , 2016, 76, 69-79.	7.0	10
28	Cerebrovascular segmentation and planning of depth electrode insertion for epilepsy surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2013, 8, 905-916.	2.8	9
29	High-fidelity fast volumetric brain MRI using synergistic wave-controlled aliasing in parallel imaging and a hybrid denoising generative adversarial network (HDnGAN). <i>Medical Physics</i> , 2022, 49, 1000-1014.	3.0	9
30	A motion compensation method for bi-plane robot-assisted internal fixation surgery of a femur neck fracture. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 942-948.	1.8	8
31	Intelligent HMI in Orthopedic Navigation. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 207-224.	1.6	8
32	Development and Validation of an Artificial Intelligence Preoperative Planning System for Total Hip Arthroplasty. <i>Frontiers in Medicine</i> , 2022, 9, 841202.	2.6	8
33	Cerebrovascular segmentation in phase-contrast magnetic resonance angiography by multi-feature fusion and vessel completion. <i>Computerized Medical Imaging and Graphics</i> , 2022, 98, 102070.	5.8	8
34	A robust registration method for real-time ultrasound image fusion with pre-acquired 3D dataset. , 2011, 2011, 2638-41.		7
35	<i>In vivo</i> tomographic imaging of lung colonization of tumour in mouse with simultaneous fluorescence and X-ray CT. <i>Journal of Biophotonics</i> , 2014, 7, 110-116.	2.3	7
36	Adaptive Ridge Point Refinement for Seeds Detection in X-Ray Coronary Angiogram. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-10.	1.3	7

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37	Ultrasound fusion image error correction using subject-specific liver motion model and automatic image registration. <i>Computers in Biology and Medicine</i> , 2016, 79, 99-109.	7.0	7
38	Multiple objective planning for thermal ablation of liver tumors. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1775-1786.	2.8	7
39	In vitro kinematic measurements of the patellar tendon in two different types of posterior-stabilized total knee arthroplasties. , 2010, 2010, 3938-41.		6
40	A convenient and stable vertebrae instance segmentation method for transforaminal endoscopic surgery planning. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1263-1276.	2.8	6
41	Cortical vessel imaging and visualization for image guided depth electrode insertion. <i>Computerized Medical Imaging and Graphics</i> , 2013, 37, 123-130.	5.8	5
42	A stereotaxic image-guided surgical robotic system for depth electrode insertion. , 2014, 2014, 6167-70.		5
43	Robust extraction for low-contrast liver tumors using modified adaptive likelihood estimation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 1565-1578.	2.8	5
44	Gripping force sensory feedback for a myoelectrically controlled forearm prosthesis. , 0, , .		4
45	A "eye-in-body" integrated surgery robot system for stereotactic surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 2123-2135.	2.8	4
46	Assessment of blood and oxygen delivery to flaps of rhesus using near infrared steady-state spectroscopy. <i>Science Bulletin</i> , 2002, 47, 1797.	1.7	4
47	Dynamic and static properties of the human knee joint in axial rotation. , 0, , .		3
48	Assessment of blood and oxygen delivery to flaps of rhesus using near infrared steady-state spectroscopy. <i>Science Bulletin</i> , 2002, 47, 1797-1802.	9.0	3
49	Minimally Invasive Electrical Impedance Tomography - Promising Way to Decrease Diagnostics Uncertainty. , 2006, , .		3
50	Tension and motion measurement for extended trochanteric osteotomy with different fixation methods. , 2009, 2009, 5255-8.		3
51	An approach to the correspondence problem in the 1-D optical transducers tracking system. <i>Proceedings of SPIE</i> , 2009, , .	0.8	3
52	A novel objective method for assessing high-contrast spatial resolution in CT based on the Rayleigh criterion. <i>Medical Physics</i> , 2017, 44, 460-469.	3.0	3
53	An X-ray-free method to accurately identify the elbow flexion-extension axis for the placement of a hinged external fixator. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 375-387.	2.8	3
54	A CT Image-Based Virtual Sensing Method to Estimate Bone Drilling Force for Surgical Robots. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 871-881.	4.2	3

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55	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
56	Dynamics of patellar tendon reflex in spastic multiple sclerosis patients. , 0, , .		2
57	Aberration analysis and adjustment of nonspherical lens in the linear CCDs three-dimensional measurement system. , 2004, , .		2
58	The Geometry Parameters Measurement in the Computer Aided Knee Replacement Surgery System. , 2009, , .		2
59	Hardware acceleration for motion tracking system used in image-guided surgery. , 2010, , .		2
60	An image-free surgical navigation system for Total Knee Arthroplasty. , 2011, , .		2
61	An in Vivo Study of the Dynamic Q Angle of the Knee Joint during Flexion. IFMBE Proceedings, 2013, , 234-237.	0.3	2
62	Analysis of the sensitivity of reflectance near-infrared tissue oximeter using the methods of simulation and experiment. , 1999, , .		1
63	Effects of Muscle Electrical Stimulation on Bone Mineral Density in the Hindlimb Bones of the Tail-Suspended Rats. , 2005, 2006, 567-8.		1
64	A Trial of Measuring the Displacement of Tibial Fragments with Pinless External Fixator. , 2005, 2005, 2002-5.		1
65	Theoretical Analytical Flow Model in Hollow Microneedles for Non-forced Fluid Extraction. , 2006, , .		1
66	Minimally Invasive Electrical Impedance Measurements of Ovum Exemplified Using Microelectrodes. , 2007, , .		1
67	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
68	An improved FDK algorithm using camera calibration technique for reconstruction of misaligned CBCT system. , 2012, 2012, 5991-4.		1
69	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
70	Accuracy of Fiducial Marker Based Multimodal Image Registration in Image Guided Surgery. IFMBE Proceedings, 2010, , 1538-1541.	0.3	1
71	Passive and active mechanical properties of the human knee joint in abduction-adduction. , 0, , .		0
72	Identification of time-varying joint dynamics using wavelets. , 0, , .		0

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73	Reflex and intrinsic mechanical changes in spastic limbs of MS patients. , 0, , .		0
74	<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
75	Using noninvasive NIRS to evaluate the metabolic capability of infant brain. , 2005, , .		0
76	A Research on The Hospital Intranet-Based Three-Dimensional Image Assisted Diagnosis System. , 2005, 2005, 5165-7.		0
77	A Method for Widening the Range of Force Measurement and Gap Adjustment in the Total Knee Replacement. , 2008, , .		0
78	A respiration correction method for real-time ultrasound image fusion with pre-acquired 3D dataset. , 2013, , .		0
79	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
80	Metrology applications of quantitative evaluation methods in CT phantom images. , 2015, , .		0