

Guoyan Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

271
papers

5,856
citations

87723

38
h-index

106150

65
g-index

294
all docs

294
docs citations

294
times ranked

5113
citing authors

#	ARTICLE	IF	CITATIONS
1	Tilt and Rotation Correction of Acetabular Version on Pelvic Radiographs. <i>Clinical Orthopaedics and Related Research</i> , 2005, &NA;, 182-190.	0.7	264
2	What Are the Radiographic Reference Values for Acetabular Under- and Overcoverage?. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 1234-1246.	0.7	250
3	Why rankings of biomedical image analysis competitions should be interpreted with care. <i>Nature Communications</i> , 2018, 9, 5217.	5.8	198
4	Crowd Counting with Deep Negative Correlation Learning. , 2018, , .		183
5	Evaluation of algorithms for Multi-Modality Whole Heart Segmentation: An open-access grand challenge. <i>Medical Image Analysis</i> , 2019, 58, 101537.	7.0	180
6	Standardized Assessment of Automatic Segmentation of White Matter Hyperintensities and Results of the WMH Segmentation Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2556-2568.	5.4	165
7	Radiographic analysis of femoroacetabular impingement with Hip²normâ€”reliable and validated. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1199-1205.	1.2	136
8	Benchmark on Automatic Six-Month-Old Infant Brain Segmentation Algorithms: The iSeg-2017 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2219-2230.	5.4	136
9	Evaluation and Comparison of Anatomical Landmark Detection Methods for Cephalometric X-Ray Images: A Grand Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1890-1900.	5.4	135
10	A 2D/3D correspondence building method for reconstruction of a patient-specific 3D bone surface model using point distribution models and calibrated X-ray images. <i>Medical Image Analysis</i> , 2009, 13, 883-899.	7.0	132
11	Navigated open-wedge high tibial osteotomy: advantages and disadvantages compared to the conventional technique in a cadaver study. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2006, 14, 917-921.	2.3	128
12	Computer aided high tibial open wedge osteotomy. <i>Injury</i> , 2004, 35, 68-78.	0.7	124
13	Which Radiographic Hip Parameters Do Not Have to Be Corrected for Pelvic Rotation and Tilt?. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 1255-1266.	0.7	120
14	3D multi-scale FCN with random modality voxel dropout learning for Intervertebral Disc Localization and Segmentation from Multi-modality MR Images. <i>Medical Image Analysis</i> , 2018, 45, 41-54.	7.0	110
15	Statistical deformable bone models for robust 3D surface extrapolation from sparse data. <i>Medical Image Analysis</i> , 2007, 11, 99-109.	7.0	102
16	Computer-Assisted Orthopedic Surgery: Current State and Future Perspective. <i>Frontiers in Surgery</i> , 2015, 2, 66.	0.6	92
17	Fully Automatic Localization and Segmentation of 3D Vertebral Bodies from CT/MR Images via a Learning-Based Method. <i>PLoS ONE</i> , 2015, 10, e0143327.	1.1	86
18	Femoroacetabular Impingement Patients With Decreased Femoral Version Have Different Impingement Locations and Intra- and Extraarticular Anterior Subspine FAI on 3D-CTâ€”Based Impingement Simulation: Implications for Hip Arthroscopy. <i>American Journal of Sports Medicine</i> , 2019, 47, 3120-3132.	1.9	85

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19	A Hybrid CT-Free Navigation System for Total Hip Arthroplasty. <i>Computer Aided Surgery</i> , 2002, 7, 129-145.	1.8	79
20	3D U-net with Multi-level Deep Supervision: Fully Automatic Segmentation of Proximal Femur in 3D MR Images. <i>Lecture Notes in Computer Science</i> , 2017, , 274-282.	1.0	75
21	Pelvic Tilt Is Minimally Changed by Total Hip Arthroplasty. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 417-421.	0.7	74
22	Hip2Norm: An object-oriented cross-platform program for 3D analysis of hip joint morphology using 2D pelvic radiographs. <i>Computer Methods and Programs in Biomedicine</i> , 2007, 87, 36-45.	2.6	72
23	Novel adversarial semantic structure deep learning for MRI-guided attenuation correction in brain PET/MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2746-2759.	3.3	72
24	Multi-atlas pancreas segmentation: Atlas selection based on vessel structure. <i>Medical Image Analysis</i> , 2017, 39, 18-28.	7.0	70
25	Nonlinear Regression via Deep Negative Correlation Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 982-998.	9.7	68
26	Fully automatic segmentation of lumbar vertebrae from CT images using cascaded 3D fully convolutional networks. , 2018, , .		62
27	Evaluation and comparison of 3D intervertebral disc localization and segmentation methods for 3D T2 MR data: A grand challenge. <i>Medical Image Analysis</i> , 2017, 35, 327-344.	7.0	59
28	C-arm based navigation in total hip arthroplastyâ€”background and clinical experience. <i>Injury</i> , 2004, 35, 90-95.	0.7	58
29	Navigated intraoperative analysis of lower limb alignment. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2005, 125, 531-535.	1.3	57
30	Localization and Segmentation of 3D Intervertebral Discs in MR Images by Data Driven Estimation. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1719-1729.	5.4	57
31	Patient-Specific 3-D Magnetic Resonance Imagingâ€”Based Dynamic Simulation of Hip Impingement and Range of Motion Can Replace 3-D Computed Tomographyâ€”Based Simulation for Patients With Femoroacetabular Impingement: Implications for Planning Open Hip Preservation Surgery and Hip Arthroscopy. <i>American Journal of Sports Medicine</i> , 2019, 47, 2966-2977.	1.9	54
32	Automatic X-ray landmark detection and shape segmentation via data-driven joint estimation of image displacements. <i>Medical Image Analysis</i> , 2014, 18, 487-499.	7.0	53
33	FACTS: Fully Automatic CT Segmentation of a Hip Joint. <i>Annals of Biomedical Engineering</i> , 2015, 43, 1247-1259.	1.3	49
34	Accurate and Robust Reconstruction of a Surface Model of the Proximal Femur From Sparse-Point Data and a Dense-Point Distribution Model for Surgical Navigation. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 2109-2122.	2.5	45
35	Development of a balanced experimentalâ€”computational approach to understanding the mechanics of proximal femur fractures. <i>Medical Engineering and Physics</i> , 2014, 36, 793-799.	0.8	45
36	Reconstruction of Patient-Specific 3D Bone Surface from 2D Calibrated Fluoroscopic Images and Point Distribution Model. <i>Lecture Notes in Computer Science</i> , 2006, 9, 25-32.	1.0	43

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37	(i) Registration techniques for computer navigation. Orthopaedics and Trauma, 2007, 21, 170-179.	0.3	43
38	Automatic MRI-based Three-dimensional Models of Hip Cartilage Provide Improved Morphologic and Biochemical Analysis. Clinical Orthopaedics and Related Research, 2019, 477, 1036-1052.	0.7	43
39	MASCG: Multi-Atlas Segmentation Constrained Graph method for accurate segmentation of hip CT images. Medical Image Analysis, 2015, 26, 173-184.	7.0	40
40	Implementation, accuracy evaluation, and preliminary clinical trial of a CT-free navigation system for high tibial opening wedge osteotomy. Computer Aided Surgery, 2005, 10, 73-86.	1.8	38
41	Statistical shape model-based reconstruction of a scaled, patient-specific surface model of the pelvis from a single standard AP x-ray radiograph. Medical Physics, 2010, 37, 1424-1439.	1.6	38
42	3D reconstruction of a patient-specific surface model of the proximal femur from calibrated x-ray	1.6	37
43	OncoTREAT: a software assistant for cancer therapy monitoring. International Journal of Computer Assisted Radiology and Surgery, 2007, 1, 231-242.	1.7	35
44	Non-rigid free-form 2D to 3D registration using a B-spline-based statistical deformation model. Pattern Recognition, 2017, 63, 689-699.	5.1	35
45	Is the acetabular cup orientation after total hip arthroplasty on a two dimension or three dimension model accurate?. International Orthopaedics, 2014, 38, 2009-2015.	0.9	34
46	Validation of statistical shape model based reconstruction of the proximal femur: A morphology study. Medical Engineering and Physics, 2010, 32, 638-644.	0.8	33
47	A hybrid CT-free navigation system for total hip arthroplasty. Computer Aided Surgery, 2002, 7, 129-145.	1.8	28
48	Biomechanical validation of computer assisted planning of periacetabular osteotomy: A preliminary study based on finite element analysis. Medical Engineering and Physics, 2015, 37, 1169-1173.	0.8	27
49	Spine-transformers: Vertebra labeling and segmentation in arbitrary field-of-view spine CTs via 3D transformers. Medical Image Analysis, 2022, 75, 102258.	7.0	27
50	Validation of a new method for determination of cup orientation in THA. Journal of Orthopaedic Research, 2009, 27, 1583-1588.	1.2	26
51	In Vivo Quantification of the Deformations of the Femoropopliteal Segment. Journal of Endovascular Therapy, 2017, 24, 27-34.	0.8	26
52	Bayesian VoxDRN: A Probabilistic Deep Voxelwise Dilated Residual Network for Whole Heart Segmentation from 3D MR Images. Lecture Notes in Computer Science, 2018, , 569-577.	1.0	26
53	Multi-stream 3D FCN with multi-scale deep supervision for multi-modality isointense infant brain MR image segmentation. , 2018, , .		26
54	Segmentation of the proximal femur in radial MR scans using a random forest classifier and deformable model registration. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 545-561.	1.7	26

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55	Computer Assisted Planning and Navigation of Periacetabular Osteotomy with Range of Motion Optimization. Lecture Notes in Computer Science, 2014, 17, 643-650.	1.0	25
56	Scaled, patient-specific 3D vertebral model reconstruction based on 2D lateral fluoroscopy. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 351-366.	1.7	24
57	A cost-effective surgical navigation solution for periacetabular osteotomy (PAO) surgery. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 271-280.	1.7	24
58	Holistic decomposition convolution for effective semantic segmentation of medical volume images. Medical Image Analysis, 2019, 57, 149-164.	7.0	24
59	Evaluation of an intensity-based algorithm for 2D/3D registration of natural knee videofluoroscopy data. Medical Engineering and Physics, 2020, 77, 107-113.	0.8	24
60	MRI-based 3D models of the hip joint enables radiation-free computer-assisted planning of periacetabular osteotomy for treatment of hip dysplasia using deep learning for automatic segmentation. European Journal of Radiology Open, 2021, 8, 100303.	0.7	24
61	X-ray image calibration and its application to clinical orthopedics. Medical Engineering and Physics, 2014, 36, 968-974.	0.8	23
62	Fully automatic reconstruction of personalized 3D volumes of the proximal femur from 2D X-ray images. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1673-1685.	1.7	23
63	Fully automatic segmentation of paraspinal muscles from 3D torso CT images via multi-scale iterative random forest classifications. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1697-1706.	1.7	23
64	Evaluation of Constant Thickness Cartilage Models vs. Patient Specific Cartilage Models for an Optimized Computer-Assisted Planning of Periacetabular Osteotomy. PLoS ONE, 2016, 11, e0146452.	1.1	23
65	Computer aided reduction and imaging. Injury, 2004, 35, 96-104.	0.7	22
66	HipMatch: An object-oriented cross-platform program for accurate determination of cup orientation using 2D \leftrightarrow 3D registration of single standard X-ray radiograph and a CT volume. Computer Methods and Programs in Biomedicine, 2009, 95, 236-248.	2.6	22
67	Validation of a statistical shape model-based 2D/3D reconstruction method for determination of cup orientation after THA. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 225-231.	1.7	22
68	Landmark-based augmented reality system for paranasal and transnasal endoscopic surgeries. International Journal of Medical Robotics and Computer Assisted Surgery, 2009, 5, 415-422.	1.2	20
69	Effective incorporating spatial information in a mutual information based 3D \leftrightarrow 2D registration of a CT volume to X-ray images. Computerized Medical Imaging and Graphics, 2010, 34, 553-562.	3.5	20
70	Statistically Deformable 2D/3D Registration for Estimating Post-operative Cup Orientation from a Single Standard AP X-ray Radiograph. Annals of Biomedical Engineering, 2010, 38, 2910-2927.	1.3	20
71	An Integrated System for 3D Hip Joint Reconstruction from 2D X-rays: A Preliminary Validation Study. Annals of Biomedical Engineering, 2013, 41, 2077-2087.	1.3	20
72	Augmented marker tracking for peri-acetabular osteotomy surgery. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 291-304.	1.7	20

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73	Personalized X-Ray Reconstruction of the Proximal Femur via Intensity-Based Non-rigid 2D-3D Registration. <i>Lecture Notes in Computer Science</i> , 2011, 14, 598-606.	1.0	20
74	CyCMIS: Cycle-consistent Cross-domain Medical Image Segmentation via diverse image augmentation. <i>Medical Image Analysis</i> , 2022, 76, 102328.	7.0	20
75	Comparison of Computer Assisted Surgery with Conventional Technique for Treatment of Abaxial Distal Phalanx Fractures in Horses: An In Vitro Study. <i>Veterinary Surgery</i> , 2008, 37, 32-42.	0.5	19
76	Optimising conservative management of chronic low back pain: study protocol for a randomised controlled trial. <i>Trials</i> , 2017, 18, 184.	0.7	18
77	A fluoroscopy-based surgical navigation system for high tibial osteotomy. <i>Technology and Health Care</i> , 2005, 13, 469-483.	0.5	17
78	Gaussian mixture models based 2D \leftrightarrow 3D registration of bone shapes for orthopedic surgery planning. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1727-1740.	1.6	17
79	Effect of Pelvic Tilt and Rotation on Cup Orientation in Both Supine and Standing Positions. <i>Journal of Arthroplasty</i> , 2018, 33, 1442-1448.	1.5	17
80	Surgically Relevant Morphological Parameters of Proximal Human Femur: A Statistical Analysis Based on 3D Reconstruction of CT Data. <i>Orthopaedic Surgery</i> , 2019, 11, 135-142.	0.7	17
81	Statistically Deformable 2D/3D Registration for Accurate Determination of Post-operative Cup Orientation from Single Standard X-ray Radiograph. <i>Lecture Notes in Computer Science</i> , 2009, 12, 820-827.	1.0	17
82	Comparison of 2.5D and 3D Quantification of Femoral Head Coverage in Normal Control Subjects and Patients with Hip Dysplasia. <i>PLoS ONE</i> , 2015, 10, e0143498.	1.1	17
83	A Robust and Accurate Two-Stage Approach for Automatic Recovery of Distal Locking Holes in Computer-Assisted Intramedullary Nailing of Femoral Shaft Fractures. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 171-187.	5.4	16
84	Automatic extraction of proximal femur contours from calibrated X-ray images using 3D statistical models: an in vitro study. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2009, 5, 213-222.	1.2	16
85	Development of an auditory implant manipulator for minimally invasive surgical insertion of implantable hearing devices. <i>Journal of Laryngology and Otology</i> , 2011, 125, 262-270.	0.4	16
86	Periacetabular osteotomy through the pararectus approach: technical feasibility and control of fragment mobility by a validated surgical navigation system in a cadaver experiment. <i>International Orthopaedics</i> , 2016, 40, 1389-1396.	0.9	16
87	Frameless Optical Computer-Aided Tracking of a Microscope for Otorhinology and Skull Base Surgery. <i>JAMA Otolaryngology</i> , 2001, 127, 1233.	1.5	15
88	Assessment of spline-based 2D \leftrightarrow 3D registration for image-guided spine surgery. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2006, 15, 193-199.	0.6	15
89	3D volumetric intensity reconstruction from 2D x-ray images using partial least squares regression. , 2013, , .		15
90	Use of a Dense Surface Point Distribution Model in a Three-Stage Anatomical Shape Reconstruction from Sparse Information for Computer Assisted Orthopaedic Surgery: A Preliminary Study. <i>Lecture Notes in Computer Science</i> , 2006, , 52-60.	1.0	15

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91	Automated Vertebra Identification from X-Ray Images. Lecture Notes in Computer Science, 2010, , 1-9.	1.0	15
92	Comparison of partial least squares regression and principal component regression for pelvic shape prediction. Journal of Biomechanics, 2013, 46, 197-199.	0.9	14
93	Statistical model-based segmentation of the proximal femur in digital antero-posterior (AP) pelvic radiographs. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 165-176.	1.7	14
94	Semantic Consistent Unsupervised Domain Adaptation for Cross-Modality Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 201-210.	1.0	14
95	Endoscope-based hybrid navigation system for minimally invasive ventral spine surgeries. Computer Aided Surgery, 2005, 10, 351-356.	1.8	13
96	Surface Reconstruction of Bone from X-ray Images and Point Distribution Model Incorporating a Novel Method for 2D-3D Correspondence. , 0, , .		13
97	A novel technology for 3D knee prosthesis planning and treatment evaluation using 2D X-ray radiographs: a clinical evaluation. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1151-1158.	1.7	13
98	Unsupervised Reconstruction of a Patient-Specific Surface Model of a Proximal Femur from Calibrated Fluoroscopic Images. , 2007, 10, 834-841.		13
99	An Optimized Spline-Based Registration of a 3D CT to a Set of C-Arm Images. International Journal of Biomedical Imaging, 2006, 2006, 1-12.	3.0	12
100	Axial suspension test to assess pre-operative spinal flexibility in patients with adolescent idiopathic scoliosis. European Spine Journal, 2014, 23, 2619-2625.	1.0	12
101	Ruler Based Automatic C-Arm Image Stitching Without Overlapping Constraint. Journal of Digital Imaging, 2015, 28, 474-480.	1.6	12
102	Deep Learning-Based Automatic Segmentation of the Proximal Femur from MR Images. Advances in Experimental Medicine and Biology, 2018, 1093, 73-79.	0.8	12
103	Hybrid Generative Adversarial Networks for Deep MR to CT Synthesis Using Unpaired Data. Lecture Notes in Computer Science, 2019, , 759-767.	1.0	12
104	Computer assisted determination of acetabular cup orientation using 2D→3D image registration. International Journal of Computer Assisted Radiology and Surgery, 2010, 5, 437-447.	1.7	11
105	Precise Estimation of Postoperative Cup Alignment from Single Standard X-Ray Radiograph with Gonadal Shielding. , 2007, 10, 951-959.		11
106	A Novel 3D/2D Correspondence Building Method for Anatomy-Based Registration. Lecture Notes in Computer Science, 2006, , 75-83.	1.0	10
107	Calibration of C-arm for orthopedic interventions via statistical model-based distortion correction and robust phantom detection. , 2012, , .		10
108	Cup Implant Planning Based on 2-D/3-D Radiographic Pelvis Reconstruction—First Clinical Results. IEEE Transactions on Biomedical Engineering, 2015, 62, 2665-2673.	2.5	10

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109	Computer-Assisted Planning, Simulation, and Navigation System for Periacetabular Osteotomy. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 143-155.	0.8	10
110	How to Exploit Weaknesses in Biomedical Challenge Design and Organization. <i>Lecture Notes in Computer Science</i> , 2018, , 388-395.	1.0	10
111	A Projector-Based Augmented Reality Navigation System for Computer-Assisted Surgery. <i>Sensors</i> , 2021, 21, 2931.	2.1	10
112	Articulated Statistical Shape Model-Based 2D-3D Reconstruction of a Hip Joint. <i>Lecture Notes in Computer Science</i> , 2014, , 128-137.	1.0	10
113	Does the Rule of Thirds Adequately Detect Deficient and Excessive Acetabular Coverage?. <i>Clinical Orthopaedics and Related Research</i> , 2021, 479, 974-987.	0.7	10
114	Calibration of a surgical microscope with automated zoom lenses using an active optical tracker. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2008, 4, 87-93.	1.2	9
115	3-D reconstruction of a surface model of the proximal femur from digital biplanar radiographs. , 2008, 2008, 66-9.		9
116	Effect of Stent Implantation on the Deformations of the Superficial Femoral Artery and Popliteal Artery: In Vivo Three-Dimensional Deformational Analysis from Two-Dimensional Radiographs. <i>Journal of Vascular and Interventional Radiology</i> , 2017, 28, 142-146.	0.2	9
117	Computer-Aided Orthopaedic Surgery: State-of-the-Art and Future Perspectives. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 1-20.	0.8	9
118	Automatic Extraction of Femur Contours from Calibrated X-Ray Images using Statistical Information. <i>Journal of Multimedia</i> , 2007, 2, .	0.3	9
119	Deep learning-based 2D/3D registration of an atlas to biplanar X-ray images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2022, 17, 1333-1342.	1.7	9
120	Robust automatic detection and removal of fiducial projections in fluoroscopy images: An integrated solution. <i>Medical Engineering and Physics</i> , 2009, 31, 571-580.	0.8	8
121	An integrated approach for reconstructing a surface model of the proximal femur from sparse input data and a multi-resolution point distribution model: an in vitro study. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2010, 5, 99-107.	1.7	8
122	Statistical Shape and Deformation Models Based 2D-3D Reconstruction. , 2017, , 329-349.		8
123	Latent3DU-net: Multi-level Latent Shape Space Constrained 3D U-net for Automatic Segmentation of the Proximal Femur from Radial MRI of the Hip. <i>Lecture Notes in Computer Science</i> , 2018, , 188-196.	1.0	8
124	Effect of pelvic tilt and rotation on cup orientation in standing anteroposterior radiographs. <i>HIP International</i> , 2020, 30, 48-55.	0.9	8
125	Spine-Transformers: Vertebra Detection and Localization in Arbitrary Field-of-View Spine CT with Transformers. <i>Lecture Notes in Computer Science</i> , 2021, , 93-103.	1.0	8
126	3D Tiled Convolution for Effective Segmentation of Volumetric Medical Images. <i>Lecture Notes in Computer Science</i> , 2019, , 146-154.	1.0	8

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127	Entropy Guided Unsupervised Domain Adaptation for Cross-Center Hip Cartilage Segmentation from MRI. Lecture Notes in Computer Science, 2020, , 447-456.	1.0	8
128	3D Intervertebral Disc Localization and Segmentation from MR Images by Data-Driven Regression and Classification. Lecture Notes in Computer Science, 2014, , 50-58.	1.0	8
129	A CT-free, intra-operative planning and navigation system for minimally invasive anterior spinal surgery - an accuracy study. Computer Aided Surgery, 2007, 12, 233-241.	1.8	8
130	Landmark based augmented reality endoscope system for sinus and skull-base surgeries. , 2008, 2008, 74-7.		7
131	Automated Intervertebral Disc Detection from Low Resolution, Sparse MRI Images for the Planning of Scan Geometries. Lecture Notes in Computer Science, 2010, , 10-17.	1.0	7
132	Compensation of Sound Speed Deviations in 3-D B-Mode Ultrasound for Intraoperative Determination of the Anterior Pelvic Plane. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 88-97.	3.6	7
133	Automated Recognition of Erector Spinae Muscles and Their Skeletal Attachment Region via Deep Learning in Torso CT Images. Lecture Notes in Computer Science, 2019, , 1-10.	1.0	7
134	Editorial: Artificial Intelligence for Medical Image Analysis of Neuroimaging Data. Frontiers in Neuroscience, 2020, 14, 480.	1.4	7
135	Robust and Accurate Reconstruction of Patient-Specific 3D Surface Models from Sparse Point Sets: A Sequential Three-Stage Trimmed Optimization Approach. Lecture Notes in Computer Science, 2006, , 68-75.	1.0	7
136	Effective Incorporation of Spatial Information in a Mutual Information Based 3D-2D Registration of a CT Volume to X-Ray Images. Lecture Notes in Computer Science, 2008, 11, 922-929.	1.0	7
137	Determination of Pelvic Orientation from Ultrasound Images Using Patch-SSMs and a Hierarchical Speed of Sound Compensation Strategy. Lecture Notes in Computer Science, 2010, , 157-167.	1.0	7
138	Fully Automatic Segmentation of AP Pelvis X-rays via Random Forest Regression and Hierarchical Sparse Shape Composition. Lecture Notes in Computer Science, 2013, , 335-343.	1.0	7
139	Implementation, accuracy evaluation, and preliminary clinical trial of a CT-free navigation system for high tibial opening wedge osteotomy. Computer Aided Surgery, 2005, 10, 73-86.	1.8	7
140	Reconstruction of Patient-Specific 3D Bone Model from Biplanar X-Ray Images and Point Distribution Models. , 2006, , .		6
141	Automatic Extraction of Femur Contours from Calibrated Fluoroscopic Images. Proceedings IEEE Workshop on Applications of Computer Vision, 2007, , .	0.0	6
142	Fully automatic segmentation of AP pelvis X-rays via random forest regression with efficient feature selection and hierarchical sparse shape composition. Computer Vision and Image Understanding, 2014, 126, 1-10.	3.0	6
143	Patient-specific spinal stiffness in AIS: a preoperative and noninvasive method. European Spine Journal, 2015, 24, 249-255.	1.0	6
144	Fluoroscopy-based tracking of femoral kinematics with statistical shape models. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 757-765.	1.7	6

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145	Radiographic reconstruction of lower-extremity bone fragments: a first trial. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 2241-2251.	1.7	6
146	Proof of concept: hip joint damage occurs at the zone of femoroacetabular impingement (FAI) in an experimental FAI sheep model. <i>Osteoarthritis and Cartilage</i> , 2019, 27, 1075-1083.	0.6	6
147	Frequency-Supervised MR-to-CT Image Synthesis. <i>Lecture Notes in Computer Science</i> , 2021, , 3-13.	1.0	6
148	3D Model-based Reconstruction of the Proximal Femur from Low-dose Biplanar X-Ray Images. , 2011, , .		6
149	Automated Intervertebral Disc Segmentation Using Deep Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2016, , 38-48.	1.0	6
150	Computer-assisted LISS plate osteosynthesis of proximal tibia fractures: Feasibility study and first clinical results. <i>Computer Aided Surgery</i> , 2005, 10, 141-149.	1.8	6
151	A fluoroscopy-based surgical navigation system for high tibial osteotomy. <i>Technology and Health Care</i> , 2005, 13, 469-83.	0.5	6
152	Minimal Invasive Spinal Surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2006, 1, 189-200.	1.7	5
153	A Unifying MAP-MRF Framework for Deriving New Point Similarity Measures for Intensity-based 2D-3D Registration. , 2006, , .		5
154	Automated detection and segmentation of cylindrical fragments from calibrated C-arm images for long bone fracture reduction. <i>Computer Methods and Programs in Biomedicine</i> , 2007, 87, 1-11.	2.6	5
155	Calibration of X-ray radiographs and its feasible application for 2D/3D reconstruction of the proximal femur. , 2008, 2008, 470-3.		5
156	Assessing the Accuracy Factors in the Determination of Postoperative Acetabular Cup Orientation Using Hybrid 2D-3D Registration. <i>Journal of Digital Imaging</i> , 2010, 23, 769-779.	1.6	5
157	2D/3D reconstruction of a scaled lumbar vertebral model from a single fluoroscopic image. , 2010, 2010, 4395-8.		5
158	Clinical experience with computer navigation in revision total hip arthroplasty. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012, 226, 919-926.	1.0	5
159	Determination of pelvic orientation from sparse ultrasound data for THA operated in the lateral position. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2012, 8, 107-113.	1.2	5
160	A multi-criteria decision support for optimal instrumentation in scoliosis spine surgery. <i>Structural and Multidisciplinary Optimization</i> , 2012, 45, 917-929.	1.7	5
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