

# Guoyan Zheng

## List of Publications by Year in descending order

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271  
papers

5,856  
citations

87843

38  
h-index

106281

65  
g-index

294  
all docs

294  
docs citations

294  
times ranked

5113  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Spine-transformers: Vertebra labeling and segmentation in arbitrary field-of-view spine CTs via 3D transformers. <i>Medical Image Analysis</i> , 2022, 75, 102258.   | 7.0 | 27        |
| 2  | MCG-Net: End-to-End Fine-Grained Delineation and Diagnostic Classification of Cardiac Events From Magnetocardiographs. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 1057-1067.   | 3.9 | 2         |
| 3  | Increased Combined Anteversion Is an Independent Predictor of Ischiofemoral Impingement in the Setting of Borderline Dysplasia With Coxa Profunda. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2022, 38, 1519-1527.                     | 1.3 | 4         |
| 4  | CyCMIS: Cycle-consistent Cross-domain Medical Image Segmentation via diverse image augmentation. <i>Medical Image Analysis</i> , 2022, 76, 102328.   | 7.0 | 20        |
| 5  | Entropy and distance maps-guided segmentation of articular cartilage: data from the Osteoarthritis Initiative. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2022, 17, 553-560.  | 1.7 | 4         |
| 6  | Handling Imbalanced Data: Uncertainty-Guided Virtual Adversarial Training With Batch Nuclear-Norm Optimization for Semi-Supervised Medical Image Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 2983-2994.               | 3.9 | 5         |
| 7  | 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         |
| 8  | What Factors Are Associated With Postoperative Ischiofemoral Impingement After Bernese Periacetabular Osteotomy in Developmental Dysplasia of the Hip?. <i>Clinical Orthopaedics and Related Research</i> , 2022, Publish Ahead of Print, .                    | 0.7 | 4         |
| 9  | Image-Less THA Cup Navigation in Clinical Routine Setup: Individual Adjustments, Accuracy, Precision, and Robustness. <i>Medicina (Lithuania)</i> , 2022, 58, 832.   | 0.8 | 5         |
| 10 | Nonlinear Regression via Deep Negative Correlation Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 982-998.  | 9.7 | 68        |
| 11 | Frequency-Supervised MR-to-CT Image Synthesis. <i>Lecture Notes in Computer Science</i> , 2021, , 3-13.  | 1.0 | 6         |
| 12 | 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. <i>European Journal of Radiology Open</i> , 2021, 8, 100303. | 0.7 | 24        |
| 13 | EquiSim: An Open-Source Articulatable Statistical Model of the Equine Distal Limb. <i>Frontiers in Veterinary Science</i> , 2021, 8, 623318.   | 0.9 | 2         |
| 14 | A Projector-Based Augmented Reality Navigation System for Computer-Assisted Surgery. <i>Sensors</i> , 2021, 21, 2931.  | 2.1 | 10        |
| 15 | DeepASDM: a Deep Learning Framework for Affine and Deformable Image Registration Incorporating a Statistical Deformation Model. , 2021, , .  |     | 1         |
| 16 | 2D/3D Registration with a Statistical Deformation Model Prior Using Deep Learning. , 2021, , .   |     | 3         |
| 17 | Disentangled Representation Learning For Deep MR To CT Synthesis Using Unpaired Data. , 2021, , .  |     | 1         |
| 18 | Guest Editorial Multi-Modal Computing for Biomedical Intelligence Systems. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3256-3257.   | 3.9 | 0         |

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|----|---|-----|-----------|
| 19 | Semantic Consistent Unsupervised Domain Adaptation for Cross-Modality Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2021, , 201-210.   | 1.0 | 14        |
| 20 | 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         |
| 21 | 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        |
| 22 | Graphical User Interface for Joint Space Width Assessment by Optical Marker Tracking. , 2021, , .   |     | 0         |
| 23 | Effect of pelvic tilt and rotation on cup orientation in standing anteroposterior radiographs. <i>HIP International</i> , 2020, 30, 48-55.  | 0.9 | 8         |
| 24 | Editorial: Artificial Intelligence for Medical Image Analysis of Neuroimaging Data. <i>Frontiers in Neuroscience</i> , 2020, 14, 480.   | 1.4 | 7         |
| 25 | Evaluation of an intensity-based algorithm for 2D/3D registration of natural knee videofluoroscopy data. <i>Medical Engineering and Physics</i> , 2020, 77, 107-113.  | 0.8 | 24        |
| 26 | Evaluation of CT&MR image registration methodologies for 3D preoperative planning of forearm surgeries. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1920-1930.   | 1.2 | 3         |
| 27 | Entropy Guided Unsupervised Domain Adaptation for Cross-Center Hip Cartilage Segmentation from MRI. <i>Lecture Notes in Computer Science</i> , 2020, , 447-456.   | 1.0 | 8         |
| 28 | 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       |
| 29 | Holistic decomposition convolution for effective semantic segmentation of medical volume images. <i>Medical Image Analysis</i> , 2019, 57, 149-164.   | 7.0 | 24        |
| 30 | 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        |
| 31 | Patient-Specific 3-D Magnetic Resonance Imaging&Based Dynamic Simulation of Hip Impingement and Range of Motion Can Replace 3-D Computed Tomography&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 | Femoroacetabular Impingement Patients With Decreased Femoral Version Have Different Impingement Locations and Intra- and Extraarticular Anterior Subspine FAI on 3D-CT&Based Impingement Simulation: Implications for Hip Arthroscopy. <i>American Journal of Sports Medicine</i> , 2019, 47, 3120-3132.  | 1.9 | 85        |
| 33 | Fully Automatic Planning of Total Shoulder Arthroplasty Without Segmentation: A Deep Learning Based Approach. <i>Lecture Notes in Computer Science</i> , 2019, , 22-34.   | 1.0 | 3         |
| 34 | Automated Recognition of Erector Spinae Muscles and Their Skeletal Attachment Region via Deep Learning in Torso CT Images. <i>Lecture Notes in Computer Science</i> , 2019, , 1-10.   | 1.0 | 7         |
| 35 | 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         |
| 36 | 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       |

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|----|--|-----|-----------|
| 37 | 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        |
| 38 | 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       |
| 39 | Automatic MRI-based Three-dimensional Models of Hip Cartilage Provide Improved Morphologic and Biochemical Analysis. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 1036-1052.                         | 0.7 | 43        |
| 40 | A Deep Learning Approach to Horse Bone Segmentation from Digitally Reconstructed Radiographs. , 2019, , .  |     | 4         |
| 41 | Segmentation of the proximal femur in radial MR scans using a random forest classifier and deformable model registration. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 545-561. | 1.7 | 26        |
| 42 | Deep Volumetric Shape Learning for Semantic Segmentation of the Hip Joint from 3D MR Images. <i>Lecture Notes in Computer Science</i> , 2019, , 35-48.   | 1.0 | 1         |
| 43 | 3D Tiled Convolution for Effective Segmentation of Volumetric Medical Images. <i>Lecture Notes in Computer Science</i> , 2019, , 146-154.  | 1.0 | 8         |
| 44 | Hybrid Generative Adversarial Networks for Deep MR to CT Synthesis Using Unpaired Data. <i>Lecture Notes in Computer Science</i> , 2019, , 759-767.  | 1.0 | 12        |
| 45 | Automated Grading of Modic Changes Using CNNs – Improving the Performance with Mixup. <i>Lecture Notes in Computer Science</i> , 2019, , 41-52.  | 1.0 | 2         |
| 46 | 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       |
| 47 | Augmented marker tracking for peri-acetabular osteotomy surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 291-304.  | 1.7 | 20        |
| 48 | 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        |
| 49 | Crowd Counting with Deep Negative Correlation Learning. , 2018, , .  |     | 183       |
| 50 | Novel deep learning-based CT synthesis algorithm for MRI-guided PET attenuation correction in brain PET/MR imaging. , 2018, , .  |     | 1         |
| 51 | Why rankings of biomedical image analysis competitions should be interpreted with care. <i>Nature Communications</i> , 2018, 9, 5217.  | 5.8 | 198       |
| 52 | 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         |
| 53 | Bayesian VoxDRN: A Probabilistic Deep Voxelwise Dilated Residual Network for Whole Heart Segmentation from 3D MR Images. <i>Lecture Notes in Computer Science</i> , 2018, , 569-577.                                   | 1.0 | 26        |
| 54 | Multi-object Model-Based Multi-atlas Segmentation Constrained Grid Cut for Automatic Segmentation of Lumbar Vertebrae from CT Images. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 65-71.        | 0.8 | 5         |

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|----|--|-----|-----------|
| 55 | Deep Learning-Based Automatic Segmentation of the Proximal Femur from MR Images. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 73-79.   | 0.8 | 12        |
| 56 | 3X-Knee: A Novel Technology for 3D Preoperative Planning and Postoperative Evaluation of TKA Based on 2D X-Rays. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 93-103.  | 0.8 | 2         |
| 57 | 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         |
| 58 | 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        |
| 59 | Biomechanical Optimization-Based Planning of Periacetabular Osteotomy. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 157-168.   | 0.8 | 4         |
| 60 | Gravity-Assisted Navigation System for Total Hip Arthroplasty. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 181-191.   | 0.8 | 0         |
| 61 | Atlas-Based 3D Intensity Volume Reconstruction from 2D Long Leg Standing X-Rays: Application to Hard and Soft Tissues in Lower Extremity. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 105-112.              | 0.8 | 2         |
| 62 | How to Exploit Weaknesses in Biomedical Challenge Design and Organization. <i>Lecture Notes in Computer Science</i> , 2018, , 388-395.   | 1.0 | 10        |
| 63 | Fully automatic segmentation of paraspinal muscles from 3D torso CT images via multi-scale iterative random forest classifications. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 1697-1706. | 1.7 | 23        |
| 64 | Statistical Shape Models and Atlases: Application to 2D-3D Reconstruction in THA. , 2018, , 183-190.   |     | 1         |
| 65 | A novel technology for 3D knee prosthesis planning and treatment evaluation using 2D X-ray radiographs: a clinical evaluation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 1151-1158.      | 1.7 | 13        |
| 66 | Multi-scale Fully Convolutional DenseNets for Automated Skin Lesion Segmentation in Dermoscopy Images. <i>Lecture Notes in Computer Science</i> , 2018, , 513-521.   | 1.0 | 4         |
| 67 | Fully automatic segmentation of lumbar vertebrae from CT images using cascaded 3D fully convolutional networks. , 2018, , .  |     | 62        |
| 68 | Multi-stream 3D FCN with multi-scale deep supervision for multi-modality isointense infant brain MR image segmentation. , 2018, , .  |     | 26        |
| 69 | DSMS-FCN: A Deeply Supervised Multi-scale Fully Convolutional Network for Automatic Segmentation of Intervertebral Disc in 3D MR Images. <i>Lecture Notes in Computer Science</i> , 2018, , 148-159.                               | 1.0 | 5         |
| 70 | Automatic Localization of the Lumbar Vertebral Landmarks in CT Images with Context Features. <i>Lecture Notes in Computer Science</i> , 2018, , 59-71.   | 1.0 | 2         |
| 71 | Affinely Registered Multi-object Atlases as Shape Prior for Grid Cut Segmentation of Lumbar Vertebrae from CT Images. <i>Lecture Notes in Computer Science</i> , 2018, , 90-95.  | 1.0 | 0         |
| 72 | In Vivo Quantification of the Deformations of the Femoropopliteal Segment. <i>Journal of Endovascular Therapy</i> , 2017, 24, 27-34.   | 0.8 | 26        |

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|----|--|-----|-----------|
| 73 | Optimising conservative management of chronic low back pain: study protocol for a randomised controlled trial. <i>Trials</i> , 2017, 18, 184.  | 0.7 | 18        |
| 74 | Multi-atlas pancreas segmentation: Atlas selection based on vessel structure. <i>Medical Image Analysis</i> , 2017, 39, 18-28.   | 7.0 | 70        |
| 75 | 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         |
| 76 | 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        |
| 77 | Augmented marker tracking for peri-acetabular osteotomy surgery. , 2017, 2017, 937-941.  |     | 4         |
| 78 | A software program to measure the three-dimensional length of the spine from radiographic images: Validation and reliability assessment for adolescent idiopathic scoliosis. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 138, 57-64.                     | 2.6 | 4         |
| 79 | 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        |
| 80 | Non-rigid free-form 2D $\rightarrow$ 3D registration using a B-spline-based statistical deformation model. <i>Pattern Recognition</i> , 2017, 63, 689-699.   | 5.1 | 35        |
| 81 | Statistical Shape and Deformation Models Based 2D $\rightarrow$ 3D Reconstruction. , 2017, , 329-349.  |     | 8         |
| 82 | Application of Image Processing Techniques in Molecular Imaging of Cancer. <i>Contrast Media and Molecular Imaging</i> , 2017, 2017, 1-2.  | 0.4 | 3         |
| 83 | Atlas-Based 3D Intensity Volume Reconstruction of Musculoskeletal Structures in the Lower Extremity from 2D Calibrated X-Ray Images. <i>Lecture Notes in Computer Science</i> , 2017, , 35-43.   | 1.0 | 0         |
| 84 | Fluoroscopy-based tracking of femoral kinematics with statistical shape models. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 757-765.   | 1.7 | 6         |
| 85 | Fully automatic reconstruction of personalized 3D volumes of the proximal femur from 2D X-ray images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 1673-1685.   | 1.7 | 23        |
| 86 | Gaussian mixture models based 2D $\rightarrow$ 3D registration of bone shapes for orthopedic surgery planning. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1727-1740.  | 1.6 | 17        |
| 87 | Computer Assisted Planning, Simulation and Navigation of Periacetabular Osteotomy. <i>Lecture Notes in Computer Science</i> , 2016, , 15-26.   | 1.0 | 1         |
| 88 | Atlas-Based Reconstruction of 3D Volumes of a Lower Extremity from 2D Calibrated X-ray Images. <i>Lecture Notes in Computer Science</i> , 2016, , 366-374.   | 1.0 | 1         |
| 89 | Patient-Specific 3D Reconstruction of a Complete Lower Extremity from 2D X-rays. <i>Lecture Notes in Computer Science</i> , 2016, , 404-414.   | 1.0 | 5         |
| 90 | Statistical shape modeling of compound musculoskeletal structures around the thigh region. , 2016, , .   |     | 1         |

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|-----|--|-----|-----------|
| 91  | A Cost-Effective Navigation System for Peri-acetabular Osteotomy Surgery. Lecture Notes in Computer Science, 2016, , 84-95.  | 1.0 | 2         |
| 92  | Radiographic reconstruction of lower-extremity bone fragments: a first trial. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 2241-2251.   | 1.7 | 6         |
| 93  | Constrained Statistical Modelling of Knee Flexion From Multi-Pose Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2016, 35, 1686-1695.   | 5.4 | 3         |
| 94  | Independent Evaluation of a Mechanical Hip Socket Navigation System in Total Hip Arthroplasty. Journal of Arthroplasty, 2016, 31, 658-661.   | 1.5 | 2         |
| 95  | Periacetabular osteotomy through the pararectus approach: technical feasibility and control of fragment mobility by a validated surgical navigation system in a cadaver experiment. International Orthopaedics, 2016, 40, 1389-1396. | 0.9 | 16        |
| 96  | Fully Automatic Segmentation of Hip CT Images. Lecture Notes in Computational Vision and Biomechanics, 2016, , 91-110.   | 0.5 | 2         |
| 97  | 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        |
| 98  | Automated 3D Lumbar Intervertebral Disc Segmentation from MRI Data Sets. Lecture Notes in Computational Vision and Biomechanics, 2016, , 25-40.  | 0.5 | 3         |
| 99  | Fully Automatic Localization and Segmentation of Intervertebral Disc from 3D Multi-modality MR Images by Regression Forest and CNN. Lecture Notes in Computer Science, 2016, , 92-101.   | 1.0 | 4         |
| 100 | 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        |
| 101 | Preoperative Planning of Periacetabular Osteotomy (PAO). Lecture Notes in Computational Vision and Biomechanics, 2016, , 151-171.  | 0.5 | 0         |
| 102 | A Cost-Effective Surgical Navigation Solution for Periacetabular Osteotomy (PAO) Surgery. Lecture Notes in Computational Vision and Biomechanics, 2016, , 333-348.   | 0.5 | 1         |
| 103 | Localization and Segmentation of 3D Intervertebral Discs from MR Images via a Learning Based Method: A Validation Framework. Lecture Notes in Computer Science, 2016, , 141-149.   | 1.0 | 0         |
| 104 | Automated Intervertebral Disc Segmentation Using Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 38-48.   | 1.0 | 6         |
| 105 | Fully Automatic Localization and Segmentation of 3D Vertebral Bodies from CT/MR Images via a Learning-Based Method. PLoS ONE, 2015, 10, e0143327.  | 1.1 | 86        |
| 106 | Computer-Assisted Orthopedic Surgery: Current State and Future Perspective. Frontiers in Surgery, 2015, 2, 66.   | 0.6 | 92        |
| 107 | Fully Automatic Segmentation of Hip CT Images via Random Forest Regression-Based Atlas Selection and Optimal Graph Search-Based Surface Detection. Lecture Notes in Computer Science, 2015, , 640-654.                               | 1.0 | 0         |
| 108 | Automated 3D Lumbar Intervertebral Disc Segmentation from MRI Data Sets. Lecture Notes in Computational Vision and Biomechanics, 2015, , 131-142.  | 0.5 | 1         |

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|-----|---|-----|-----------|
| 109 | Personalized x-ray reconstruction of the proximal femur via a non-rigid 2D-3D registration. Proceedings of SPIE, 2015, , .  | 0.8 | 4         |
| 110 | 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        |
| 111 | Reconstruction of 3D Vertebral Models from a Single 2D Lateral Fluoroscopic Image. Lecture Notes in Computational Vision and Biomechanics, 2015, , 349-365.   | 0.5 | 2         |
| 112 | Ruler Based Automatic C-Arm Image Stitching Without Overlapping Constraint. Journal of Digital Imaging, 2015, 28, 474-480.  | 1.6 | 12        |
| 113 | What Are the Radiographic Reference Values for Acetabular Under- and Overcoverage?. Clinical Orthopaedics and Related Research, 2015, 473, 1234-1246.   | 0.7 | 250       |
| 114 | Evaluation and Comparison of Anatomical Landmark Detection Methods for Cephalometric X-Ray Images: A Grand Challenge. IEEE Transactions on Medical Imaging, 2015, 34, 1890-1900.                                    | 5.4 | 135       |
| 115 | FACTS: Fully Automatic CT Segmentation of a Hip Joint. Annals of Biomedical Engineering, 2015, 43, 1247-1259.   | 1.3 | 49        |
| 116 | Which Radiographic Hip Parameters Do Not Have to Be Corrected for Pelvic Rotation and Tilt?. Clinical Orthopaedics and Related Research, 2015, 473, 1255-1266.  | 0.7 | 120       |
| 117 | Localization and Segmentation of 3D Intervertebral Discs in MR Images by Data Driven Estimation. IEEE Transactions on Medical Imaging, 2015, 34, 1719-1729.   | 5.4 | 57        |
| 118 | MASCG: Multi-Atlas Segmentation Constrained Graph method for accurate segmentation of hip CT images. Medical Image Analysis, 2015, 26, 173-184.   | 7.0 | 40        |
| 119 | 2D-3D regularized deformable b-spline registration: Application to the proximal femur. , 2015, , .  |     | 3         |
| 120 | Medical image computing in diagnosis and intervention of spinal diseases. Computerized Medical Imaging and Graphics, 2015, 45, 99-101.  | 3.5 | 5         |
| 121 | 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        |
| 122 | Patient-specific spinal stiffness in AIS: a preoperative and noninvasive method. European Spine Journal, 2015, 24, 249-255.   | 1.0 | 6         |
| 123 | A complete-pelvis segmentation framework for image-free total hip arthroplasty (THA): methodology and clinical study. International Journal of Medical Robotics and Computer Assisted Surgery, 2015, 11, 166-180.   | 1.2 | 4         |
| 124 | Non-rigid Free-Form 2D-3D Registration Using Statistical Deformation Model. Lecture Notes in Computer Science, 2015, , 102-109.   | 1.0 | 1         |
| 125 | Comparison of 2.5D and 3D Quantification of Femoral Head Coverage in Normal Control Subjects and Patients with Hip Dysplasia. PLoS ONE, 2015, 10, e0143498.   | 1.1 | 17        |
| 126 | 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         |



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|-----|---|-----|-----------|
| 127 | X-ray image calibration and its application to clinical orthopedics. Medical Engineering and Physics, 2014, 36, 968-974.  | 0.8 | 23        |
| 128 | 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        |
| 129 | Automatic X-ray landmark detection and shape segmentation via data-driven joint estimation of image displacements. Medical Image Analysis, 2014, 18, 487-499.                                       | 7.0 | 53        |
| 130 | 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        |
| 131 | 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        |
| 132 | Development of a balanced experimentalâ€œcomputational approach to understanding the mechanics of proximal femur fractures. Medical Engineering and Physics, 2014, 36, 793-799.                     | 0.8 | 45        |
| 133 | Articulated Statistical Shape Model-Based 2D-3D Reconstruction of a Hip Joint. Lecture Notes in Computer Science, 2014, , 128-137.  | 1.0 | 10        |
| 134 | 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        |
| 135 | 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         |
| 136 | Image-Guided Orthopaedic Surgery. , 2014, , 647-659.  |     | 0         |
| 137 | Fully Automatic CT Segmentation for Computer-Assisted Pre-operative Planning of Hip Arthroscopy. Lecture Notes in Computer Science, 2014, , 55-63.  | 1.0 | 0         |
| 138 | Comparison of partial least squares regression and principal component regression for pelvic shape prediction. Journal of Biomechanics, 2013, 46, 197-199.  | 0.9 | 14        |
| 139 | Pelvic Tilt Is Minimally Changed by Total Hip Arthroplasty. Clinical Orthopaedics and Related Research, 2013, 471, 417-421.   | 0.7 | 74        |
| 140 | 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        |
| 141 | 3D volumetric intensity reconstruction from 2D x-ray images using partial least squares regression. , 2013, , .   |     | 15        |
| 142 | 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         |
| 143 | Expectation Conditional Maximization-Based Deformable Shape Registration. Lecture Notes in Computer Science, 2013, , 548-555.   | 1.0 | 5         |
| 144 | Fully Automatic X-Ray Image Segmentation via Joint Estimation of Image Displacements. Lecture Notes in Computer Science, 2013, 16, 227-234.   | 1.0 | 1         |

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