Jacques A De Guise

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Predictive Modeling for Personalized Three-Dimensional Burn Injury Assessments. Journal of Burn Care and Research, 2020, 41, 121-130. | 0.4 | 2 |
| 2 | Toward Automated 3D Spine Reconstruction from Biplanar Radiographs Using CNN for Statistical Spine Model Fitting. IEEE Transactions on Medical Imaging, 2019, 38, 2796-2806. | 8.9 | 43 |
| 3 | Can total knee arthroplasty restore the correlation between radiographic mechanical axis angle and dynamic coronal plane alignment during gait?. Knee, 2019, 26, 586-594. | 1.6 | 7 |
| 4 | Comparison of MRI- and CT-based semiautomated liver segmentation: a validation study. Abdominal Radiology, 2017, 42, 478-489. | 2.1 | 19 |
| 5 | Liver Segmentation on CT and MR Using Laplacian Mesh Optimization. IEEE Transactions on Biomedical Engineering, 2017, 64, 2110-2121. | 4.2 | 53 |
| 6 | Automatic spine and pelvis detection in frontal X-rays using deep neural networks for patch displacement learning. , 2016, , . | | 15 |
| 7 | Sparse and multi-object pose+shape modeling of the three-dimensional scoliotic spine. , 2016, , . | | 4 |
| 8 | Validation of a Semiautomated Liver Segmentation Method Using CT for Accurate Volumetry. Academic Radiology, 2015, 22, 1088-1098. | 2.5 | 17 |
| 9 | Comparison of knee gait kinematics of workers exposed to knee straining posture to those of non-knee straining workers. Gait and Posture, 2013, 38, 187-191. | 1.4 | 10 |
| 10 | IDENTIFICATION OF KNEE FRONTAL PLANE KINEMATIC PATTERNS IN NORMAL GAIT BY PRINCIPAL COMPONENT ANALYSIS. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350026. | 0.7 | 16 |
| 11 | Analysis of humeral head displacements from sequences of biplanar X-rays: repeatability study and preliminary results in healthy subjects. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 221-229. | 1.6 | 8 |
| 12 | Clinical Significance of Lumbosacral Kyphosis in Adolescent Spondylolisthesis. Spine, 2012, 37, 304-308. | 2.0 | 27 |
| 13 | Fast 3D reconstruction of the lower limb using a parametric model and statistical inferences and clinical measurements calculation from biplanar X-rays. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 457-466. | 1.6 | 194 |
| 14 | Analyzing gait pathologies using a depth camera. , 2012, 2012, 4835-8. | | 6 |
| 15 | A Kohonen neural network description of scoliosis fused regions and their corresponding Lenke classification. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 257-264. | 2.8 | 5 |
| 16 | Gait adaptation in chronic anterior cruciate ligament-deficient patients: Pivot-shift avoidance gait. Clinical Biomechanics, 2011, 26, 181-187. | 1.2 | 56 |
| 17 | Effects of physiotherapy treatment on knee osteoarthritis gait data using principal component analysis. Clinical Biomechanics, 2011, 26, 284-291. | 1.2 | 29 |
| 18 | Evaluation of unipodal stance in knee osteoarthritis patients using knee accelerations and center of pressure. Osteoarthritis and Cartilage, 2011, 19, 281-286. | 1.3 | 18 |

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|----|---|-----|-----------|
| 19 | Accounting for velocity of the pivot shift test manoeuvre decreases kinematic variability. Knee, 2011, 18, 88-93. | 1.6 | 22 |
| 20 | Tissue Characterization of Equine Tendons With Clinical B-Scan Images Using a Shock Filter Thinning Algorithm. IEEE Transactions on Medical Imaging, 2011, 30, 597-605. | 8.9 | 3 |
| 21 | Computer algorithms and applications used to assist the evaluation and treatment of adolescent idiopathic scoliosis: a review of published articles 2000–2009. European Spine Journal, 2011, 20, 1058-1068. | 2.2 | 14 |
| 22 | Passive contribution of the rotator cuff to abduction and joint stability. Surgical and Radiologic Anatomy, 2011, 33, 767-773. | 1.2 | 11 |
| 23 | Relationships between viscoelastic properties of lumbar intervertebral disc and degeneration grade assessed by MRI. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 593-599. | 3.1 | 35 |
| 24 | Objective grading of the pivot shift phenomenon using a support vector machine approach. Journal of Biomechanics, 2011, 44, 1-5. | 2.1 | 21 |
| 25 | Depth energy image for gait symmetry quantification. , 2011, 2011, 5136-9. | | 12 |
| 26 | A Variability Study of Computerized Sagittal Sacral Radiologic Measures. Spine, 2010, 35, 71-75. | 2.0 | 13 |
| 27 | A Decision Tree Can Increase Accuracy When Assessing Curve Types According to Lenke Classification of Adolescent Idiopathic Scoliosis. Spine, 2010, 35, 1054-1059. | 2.0 | 9 |
| 28 | Feature selection using a principal component analysis of the kinematics of the pivot shift phenomenon. Journal of Biomechanics, 2010, 43, 3080-3084. | 2.1 | 57 |
| 29 | Guidewire tracking during endovascular neurosurgery. Medical Engineering and Physics, 2010, 32, 813-821. | 1.7 | 11 |
| 30 | A semi-automated software tool to study treadmill locomotion in the rat: From experiment videos to statistical gait analysis. Journal of Neuroscience Methods, 2010, 190, 279-288. | 2.5 | 12 |
| 31 | A Computer-Aided Method for Scoliosis Fusion Level Selection by a Topologicaly Ordered Self Organizing Kohonen Network. , 2010, , . | | 1 |
| 32 | Ultrasound Bâ€scan image simulation, segmentation, and analysis of the equine tendon. Medical Physics, 2010, 37, 1038-1046. | 3.0 | 8 |
| 33 | 3D shape reconstruction of bone from two x-ray images using 2D/3D non-rigid registration based on moving least-squares deformation. , 2010, , . | | 10 |
| 34 | Method for fast and accurate segmentation processing from prior shape: application to femoral head segmentation on x-ray images. , 2009, , . | | 7 |
| 35 | The responsiveness of three-dimensional knee accelerations used as an estimation of knee instability and loading transmission during gait in osteoarthritis patient's follow-up. Osteoarthritis and Cartilage, 2009, 17, 213-219. | 1.3 | 23 |
| 36 | Comparison of methods to assess quadriceps muscle volume using magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2009, 30, 1116-1123. | 3.4 | 57 |

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|----|---|------|-----------|
| 37 | Assessment of lumbosacral kyphosis in spondylolisthesis: a computer-assisted reliability study of six measurement techniques. European Spine Journal, 2009, 18, 212-217. | 2.2 | 25 |
| 38 | 3D-patient-specific geometry of the muscles involved in knee motion from selected MRI images. Medical and Biological Engineering and Computing, 2009, 47, 579-587. | 2.8 | 25 |
| 39 | 3D reconstruction of the spine from biplanar X-rays using parametric models based on transversal and longitudinal inferences. Medical Engineering and Physics, 2009, 31, 681-687. | 1.7 | 300 |
| 40 | Functional calibration procedure for 3D knee joint angle description using inertial sensors. Journal of Biomechanics, 2009, 42, 2330-2335. | 2.1 | 251 |
| 41 | Coupling 2D/3D registration method and statistical model to perform 3D reconstruction from partial x-rays images data. , 2009, 2009, 1008-11. | | 10 |
| 42 | Performance evaluation of a medical robotic 3D-ultrasound imaging system. Medical Image Analysis, 2008, 12, 275-290. | 11.6 | 38 |
| 43 | Gesture as an important factor in 3D kinematic assessment of the knee. Knee Surgery, Sports Traumatology, Arthroscopy, 2008, 16, 64-70. | 4.2 | 3 |
| 44 | Parametric subject-specific model for in vivo 3D reconstruction using bi-planar X-rays: application to the upper femoral extremity. Medical and Biological Engineering and Computing, 2008, 46, 799-805. | 2.8 | 34 |
| 45 | A simple and rapid method for electromagnetic field distortion correction when using two Fastrak sensors for biomechanical studies. Journal of Biomechanics, 2008, 41, 1813-1817. | 2.1 | 6 |
| 46 | Automatic Classification of Asymptomatic and Osteoarthritis Knee Gait Patterns Using Kinematic Data Features and the Nearest Neighbor Classifier. IEEE Transactions on Biomedical Engineering, 2008, 55, 1230-1232. | 4.2 | 51 |
| 47 | New Accelerometric Method to Discriminate Between Asymptomatic Subjects and Patients With Medial Knee Osteoarthritis During 3-D Gait. IEEE Transactions on Biomedical Engineering, 2008, 55, 1415-1422. | 4.2 | 62 |
| 48 | Test-Retest Reliability and Minimal Clinical Change Determination for 3-Dimensional Tibial and Femoral Accelerations During Treadmill Walking in Knee Osteoarthritis Patients. Archives of Physical Medicine and Rehabilitation, 2008, 89, 732-737. | 0.9 | 37 |
| 49 | Reliability of a method for analyzing three-dimensional knee kinematics during gait. Gait and Posture, 2008, 28, 170-174. | 1.4 | 37 |
| 50 | Surface reconstruction from planar x-ray images using moving least squares. , 2008, 2008, 3967-70. | | 10 |
| 51 | Effect of depth of correlation on cross-correlation blood flow measurements in glass microchannels. , 2008, , . | | 2 |
| 52 | A thinning algorithm for equine tendon structure identification from 2D ultrasound images. , 2008, , . | | 1 |
| 53 | HIERARCHICAL ANALYSIS AND CLASSIFICATION OF ASYMPTOMATIC AND KNEE OSTEOARTHRITIS GAIT PATTERNS USING A WAVELET REPRESENTATION OF KINETIC DATA AND THE NEAREST NEIGHBOR CLASSIFIER. Journal of Mechanics in Medicine and Biology, 2008, 08, 45-54. | 0.7 | 9 |
| 54 | Bone enhancement in digital dual energy radiographs from normalization with a synthetic background image. Physics in Medicine and Biology, 2008, 53, 1259-1275. | 3.0 | 1 |

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|----|---|-----|-----------|
| 55 | Wires segmentation in fluoroscopic images during cerebral aneurysm endovascular intervention. , 2008, , . | | 1 |
| 56 | Postural Model of Sagittal Spino-Pelvic Alignment and Its Relevance for Lumbosacral Developmental Spondylolisthesis. Spine, 2008, 33, 2316-2325. | 2.0 | 85 |
| 57 | Automated Method for Clinic and Morphologic Analysis of Bones Using Implicit Modeling Technique. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5095-8. | 0.5 | 3 |
| 58 | The effect of axis alignment on shoulder joint kinematics analysis during arm abduction. Clinical Biomechanics, 2007, 22, 758-766. | 1.2 | 17 |
| 59 | Comparing three attachment systems used to determine knee kinematics during gait. Gait and Posture, 2007, 25, 533-543. | 1.4 | 34 |
| 60 | Optimization of Spatial Resolution for Peripheral Magnetic Resonance Angiography. Academic Radiology, 2007, 14, 54-61. | 2.5 | 5 |
| 61 | Relation between the sagittal pelvic and lumbar spine geometries following surgical correction of adolescent idiopathic scoliosis. European Spine Journal, 2007, 16, 531-536. | 2.2 | 52 |
| 62 | Comparison between constrained and non-constrained Cobb techniques for the assessment of thoracic kyphosis and lumbar lordosis. European Spine Journal, 2007, 16, 1325-1331. | 2.2 | 31 |
| 63 | Lumbar intervertebral disc mobility: effect of disc degradation and of geometry. European Journal of Orthopaedic Surgery and Traumatology, 2007, 17, 533-541. | 1.4 | 11 |
| 64 | P3E-6 3D Tissue Characterization of the Equine Superficial Digital Flexor Tendons From In Vivo Ultrasound Images. , 2006, , . | | 1 |
| 65 | Gesture standardization increases the reproducibility of 3D kinematic measurements of the knee joint. Clinical Biomechanics, 2006, 21, 502-507. | 1.2 | 3 |
| 66 | Computerized Assessment of Sagittal Curvatures of the Spine. Journal of Spinal Disorders and Techniques, 2006, 19, 507-512. | 1.9 | 24 |
| 67 | Resolution enhancement in digital x-ray imaging. Physics in Medicine and Biology, 2006, 51, 2415-2439. | 3.0 | 2 |
| 68 | Parallel Robot for Medical 3D-Ultrasound Imaging. , 2006, , . | | 10 |
| 69 | 3D reconstruction of the pelvis from bi-planar radiography. Computer Methods in Biomechanics and Biomedical Engineering, 2006, 9, 1-5. | 1.6 | 61 |
| 70 | Resolution enhancement in dual-energy x-ray imaging. , 2005, 5747, 614. | | 1 |
| 71 | A reproducible method for studying three-dimensional knee kinematics. Journal of Biomechanics, 2005, 38, 1926-1931. | 2.1 | 81 |
| 72 | Evaluation of a full-scale gas microstrip detector for low-dose X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 536, 52-60. | 1.6 | 19 |

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|----|--|-----|-----------|
| 73 | Personalized Body Segment Parameters From Biplanar Low-Dose Radiography. IEEE Transactions on Biomedical Engineering, 2005, 52, 1756-1763. | 4.2 | 49 |
| 74 | Three-Dimensional Biplanar Reconstruction of Scoliotic Rib Cage Using the Estimation of a Mixture of Probabilistic Prior Models. IEEE Transactions on Biomedical Engineering, 2005, 52, 1713-1728. | 4.2 | 40 |
| 75 | A Hierarchical Statistical Modeling Approach for the Unsupervised 3-D Biplanar Reconstruction of the Scoliotic Spine. IEEE Transactions on Biomedical Engineering, 2005, 52, 2041-2057. | 4.2 | 97 |
| 76 | Three-dimensional X-ray absorptiometry (3D-XA): a method for reconstruction of human bones using a dual X-ray absorptiometry device. Osteoporosis International, 2005, 16, 969-976. | 3.1 | 35 |
| 77 | Physical characteristics of a low-dose gas microstrip detector for orthopedic x-ray imaging. Medical Physics, 2005, 32, 1193-1204. | 3.0 | 25 |
| 78 | 3D elastic registration of vessel structures from IVUS data on biplane angiography1. Academic Radiology, 2005, 12, 10-16. | 2.5 | 19 |
| 79 | Geometrical accuracy and fusion of multimodal vascular images: A phantom study. Medical Physics, 2004, 31, 1434-1443. | 3.0 | 23 |
| 80 | Quantitative magnetic resonance imaging evaluation of knee osteoarthritis progression over two years and correlation with clinical symptoms and radiologic changes. Arthritis and Rheumatism, 2004, 50, 476-487. | 6.7 | 235 |
| 81 | Validation of the relative 3D orientation of vertebrae reconstructed by bi-planar radiography. Medical Engineering and Physics, 2004, 26, 415-422. | 1.7 | 29 |
| 82 | A Method for Modeling Noise in Medical Images. IEEE Transactions on Medical Imaging, 2004, 23, 1221-1232. | 8.9 | 237 |
| 83 | A 3D Generic Inverse Dynamic Method using Wrench Notation and Quaternion Algebra. Computer Methods in Biomechanics and Biomedical Engineering, 2004, 7, 159-166. | 1.6 | 95 |
| 84 | Fast accurate stereoradiographic 3D-reconstruction of the spine using a combined geometric and statistic model. Clinical Biomechanics, 2004, 19, 240-247. | 1.2 | 173 |
| 85 | Effect of Ski Binding Parameters on Knee Biomechanics: A Three-Dimensional Computational Study. Medicine and Science in Sports and Exercise, 2004, 36, 1218-1225. | 0.4 | 24 |
| 86 | Three-dimensional stereo reconstruction of a mass of radioactive coils after embolization of cerebral aneurysms. , 2004, 5367, 773. | | 0 |
| 87 | Thoracic Pedicle Morphometry in Vertebrae from Scoliotic Spines. Spine, 2004, 29, 239-248. | 2.0 | 96 |
| 88 | Three-dimensional (3D) detailed reconstruction of human vertebrae from low-dose digital stereoradiography. European Journal of Orthopaedic Surgery and Traumatology, 2003, 13, 57-62. | 1.4 | 29 |
| 89 | Computer based method for the three-dimensional kinematic analysis of combined posterior cruciate ligament and postero-lateral complex reconstructions on cadaver knees. Knee, 2003, 10, 249-256. | 1.6 | 5 |
| 90 | Reliability of a quantification imaging system using magnetic resonance images to measure cartilage thickness and volume in human normal and osteoarthritic knees. Osteoarthritis and Cartilage, 2003, 11, 351-360. | 1.3 | 134 |

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|-----|---|-----|-----------|
| 91 | Assessment of the 3-d reconstruction and high-resolution geometrical modeling of the human skeletal trunk from 2-d radiographic images. IEEE Transactions on Biomedical Engineering, 2003, 50, 989-998. | 4.2 | 157 |
| 92 | Computer-aided method for quantification of cartilage thickness and volume changes using mri: validation study using a synthetic model. IEEE Transactions on Biomedical Engineering, 2003, 50, 978-988. | 4.2 | 134 |
| 93 | In vitro evaluation of combined graft deformation in anterior cruciate ligament reconstructions. Journal of Biomechanics, 2003, 36, 1641-1647. | 2.1 | 1 |
| 94 | 3D/2D registration and segmentation of scoliotic vertebrae using statistical models. Computerized Medical Imaging and Graphics, 2003, 27, 321-337. | 5.8 | 147 |
| 95 | A Biplanar Reconstruction Method Based on 2D and 3D Contours: Application to the Distal Femur. Computer Methods in Biomechanics and Biomedical Engineering, 2003, 6, 1-6. | 1.6 | 119 |
| 96 | Registration and fusion of multimodal vascular images: a phantom study. , 2003, , . | | 0 |
| 97 | Three-dimensional reconstruction of the human spine from bi-planar radiographs: using multiscale wavelet analysis and spline interpolators for semi-automation. , 2003, , . | | 4 |
| 98 | Title is missing!. Spine, 2003, 28, 1404-1409. | 2.0 | 7 |
| 99 | Morphometric Analysis of Anatomic Scoliotic Specimens. Spine, 2002, 27, 2305-2311. | 2.0 | 97 |
| 100 | Computer-based method for the 3-D kinematic analysis of posterior cruciate ligament and postero-lateral corner lesions. Knee, 2002, 9, 301-308. | 1.6 | 10 |
| 101 | Comparison of two methods for reconstruction of the posterior cruciate ligament using a computer based method: quantitative evaluation of laxity, three-dimensional kinematics and ligament deformation measurement in cadaver knees. Knee, 2002, 9, 291-299. | 1.6 | 16 |
| 102 | Three-dimensional surface rendering reconstruction of scoliotic vertebrae using a non stereo-corresponding points technique. European Spine Journal, 2002, 11, 344-352. | 2.2 | 37 |
| 103 | Idiopathic Scoliosis in Three Dimensions. Spine, 2001, 26, 2719-2726. | 2.0 | 39 |
| 104 | Preoperative and early postoperative three-dimensional changes of the rib cage after posterior instrumentation in adolescent idiopathic scoliosis. European Spine Journal, 2001, 10, 101-106. | 2.2 | 20 |
| 105 | Analysis of pressure distribution at the body–seat interface in able-bodied and paraplegic subjects using a deformable active contour algorithm. Medical Engineering and Physics, 2001, 23, 359-367. | 1.7 | 43 |
| 106 | A Three-Dimensional Radiographic Comparison of Cotrel–Dubousset and Colorado Instrumentations for the Correction of Idiopathic Scoliosis. Spine, 2000, 25, 205. | 2.0 | 69 |
| 107 | 3D reconstruction method from biplanar radiography using non-stereocorresponding points and elastic deformable meshes. Medical and Biological Engineering and Computing, 2000, 38, 133-139. | 2.8 | 142 |
| 108 | Three-dimensional knee analyzer validation by simple fluoroscopic study. Knee, 2000, 7, 221-231. | 1.6 | 36 |

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|-----|---|-----|-----------|
| 109 | Long-term three-dimensional changes of the spine after posterior spinal instrumentation and fusion in adolescent idiopathic scoliosis. European Spine Journal, 1999, 8, 16-21. | 2.2 | 40 |
| 110 | Intraoperative Comparison of Two Instrumentation Techniques for the Correction of Adolescent Idiopathic Scoliosis. Spine, 1999, 24, 2011. | 2.0 | 56 |
| 111 | Three-dimensional measurement of wedged scoliotic vertebrae and intervertebral disks. European Spine Journal, 1998, 7, 59-65. | 2.2 | 48 |
| 112 | Estimation of 3D location and orientation of human vertebral facet joints from standing digital radiographs. Medical and Biological Engineering and Computing, 1998, 36, 389-394. | 2.8 | 5 |
| 113 | <title>Simplified active contour model applied to bone structure segmentation in digital radiographs</title> . , 1998, , . | | 8 |
| 114 | <title>Digital radiography segmentation of a scoliotic vertebral body using deformable models</title> . , 1997, , . | | 6 |
| 115 | Rib Cage-Spine Coupling Patterns Involved in Brace Treatment of Adolescent Idiopathic Scoliosis. Spine, 1997, 22, 629-635. | 2.0 | 49 |
| 116 | Experimental correlation-based identification of X-ray CT point spread function. Part 1: method and experimental results. Medical and Biological Engineering and Computing, 1997, 35, 2-8. | 2.8 | 7 |
| 117 | Experimental correlation-based identification of X-ray CT point spread function. Part 2: simulation and design of input signal. Medical and Biological Engineering and Computing, 1997, 35, 9-16. | 2.8 | 5 |
| 118 | Computer assisted knee surgery: Diagnostics and planning of knee surgery. Computer Aided Surgery, 1997, 2, 108-123. | 1.8 | 16 |