

José Gerardo Tamez-Peña

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

1,774
citations

516710

16
h-index

289244

40
g-index

108
all docs

108
docs citations

108
times ranked

2873
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Exploration and modeling of breast cancer radiomics data associated with recurrence outcomes. , 2021, , . | | 0 |
| 2 | Robust Discovery of Mild Cognitive Impairment Subtypes and Their Risk of Alzheimer's Disease Conversion Using Unsupervised Machine Learning and Gaussian Mixture Modeling. Current Alzheimer Research, 2021, 18, 595-606. | 1.4 | 9 |
| 3 | COVID-19 classification using thermal images. , 2021, , . | | 0 |
| 4 | Risk profiles for negative and positive COVID-19 hospitalized patients. Computers in Biology and Medicine, 2021, 136, 104753. | 7.0 | 4 |
| 5 | Comparing Different Supervised Classification Algorithms to Detect Arrhythmia in an ECG. Lecture Notes in Networks and Systems, 2021, , 153-165. | 0.7 | 0 |
| 6 | Post-concussive mTBI in Student Athletes: MRI Features and Machine Learning. Frontiers in Neurology, 2021, 12, 734329. | 2.4 | 9 |
| 7 | Prediction of MCI to AD risk of conversion survival models: qMRI vs CSF measures and cognitive assessments. , 2020, , . | | 0 |
| 8 | Differences in the Progression from Mild Cognitive Impairment to Alzheimer's Disease between APOE4 Carriers and Non-Carriers. , 2019, , . | | 1 |
| 9 | Benchmarking machine learning models for late-onset alzheimerâ€™s disease prediction from genomic data. BMC Bioinformatics, 2019, 20, 709. | 2.6 | 41 |
| 10 | Trajectories of femorotibial cartilage thickness among persons with or at risk of knee osteoarthritis: development of a prediction model to identify progressors. Osteoarthritis and Cartilage, 2019, 27, 257-265. | 1.3 | 16 |
| 11 | Ensemble of SVM, Random-Forest and the BSWiMS Method to Predict and Describe Structural Associations with Fluid Intelligence Scores from T1-Weighed MRI. Lecture Notes in Computer Science, 2019, , 47-56. | 1.3 | 3 |
| 12 | Measuring hippocampal neuroanatomical asymmetry to better diagnose Alzheimer's disease. , 2019, , . | | 0 |
| 13 | Longitudinal gender-specific differences in the conversion from mild cognitive impairment to Alzheimer's disease. , 2018, , . | | 0 |
| 14 | Evaluating the propensity of an elevated nutritional risk in osteoarthritis: data from the Canadian longitudinal study on aging. Osteoarthritis and Cartilage, 2018, 26, S256-S257. | 1.3 | 0 |
| 15 | Radiogenomics analysis identifies correlations of digital mammography with clinical molecular signatures in breast cancer. PLoS ONE, 2018, 13, e0193871. | 2.5 | 15 |
| 16 | Identification and Temporal Characterization of Features Associated with the Conversion from Mild Cognitive Impairment to Alzheimerâ€™s Disease. Current Alzheimer Research, 2018, 15, 751-763. | 1.4 | 7 |
| 17 | Identification of outcome-related driver mutations in cancer using conditional co-occurrence distributions. Scientific Reports, 2017, 7, 43350. | 3.3 | 8 |
| 18 | Acute changes in knee cartilage transverse relaxation time after running and bicycling. Journal of Biomechanics, 2017, 53, 171-177. | 2.1 | 25 |

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|----|--|-----|-----------|
| 19 | VALORATE: fast and accurate log-rank test in balanced and unbalanced comparisons of survival curves and cancer genomics. <i>Bioinformatics</i> , 2017, 33, 1900-1901. | 4.1 | 9 |
| 20 | Baseline knee adduction moment interacts with body mass index to predict loss of medial tibial cartilage volume over 2.5 years in knee Osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2476-2483. | 2.3 | 37 |
| 21 | [P1â€“253]: LONGITUDINAL DIFFERENCES IN THE PROGRESSION FROM MCI TO AD BETWEEN HISPANIC AND NONâ€“HISPANIC SUBJECTS. <i>Alzheimer's and Dementia</i> , 2017, 13, P344. | 0.8 | 2 |
| 22 | Detecting subjects at risk of radiological progression: Data from the OAI. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S72-S73. | 1.3 | 0 |
| 23 | Knee mechanics interact with body mass index to predict cartilage loss over 2.5 years in people with clinical knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S47. | 1.3 | 1 |
| 24 | Compositional changes in tibiofemoral cartilage after running and bicycling. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S286. | 1.3 | 0 |
| 25 | The effect of anterior cruciate ligament reconstruction on the area of subchondral bone covered by cartilage. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S271. | 1.3 | 0 |
| 26 | Scan-rescan precision of subchondral bone curvature maps from routine 3D DESS water excitation sequences: Data from the Osteoarthritis Initiative. <i>Computers in Biology and Medicine</i> , 2016, 69, 83-91. | 7.0 | 2 |
| 27 | Efficient Gene Selection for Cancer Prognostic Biomarkers Using Swarm Optimization and Survival Analysis. <i>Current Bioinformatics</i> , 2016, 11, 310-323. | 1.5 | 3 |
| 28 | Do Knee Moments Normalized to Measures of Knee Cartilage Area Better Classify the Severity of Knee Osteoarthritis?. <i>Journal of Applied Biomechanics</i> , 2015, 31, 415-422. | 0.8 | 1 |
| 29 | GridMass: a fast two-dimensional feature detection method for LC/MS. <i>Journal of Mass Spectrometry</i> , 2015, 50, 165-174. | 1.6 | 52 |
| 30 | Bilateral Image Subtraction and Multivariate Models for the Automated Triaging of Screening Mammograms. <i>BioMed Research International</i> , 2015, 2015, 1-12. | 1.9 | 9 |
| 31 | Multivariate Radiological-Based Models for the Prediction of Future Knee Pain: Data from the OAI. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-10. | 1.3 | 5 |
| 32 | Improved Diagnostic Multimodal Biomarkers for Alzheimerâ€™s Disease and Mild Cognitive Impairment. <i>BioMed Research International</i> , 2015, 2015, 1-11. | 1.9 | 16 |
| 33 | P1-168: A time series analysis of ADNI data reveals novel Alzheimer's-dementia-associated factors. , 2015, 11, P408-P409. | | 0 |
| 34 | Knee adduction moment relates to medial femoral and tibial cartilage morphology in clinical knee osteoarthritis. <i>Journal of Biomechanics</i> , 2015, 48, 3495-3501. | 2.1 | 34 |
| 35 | Variation in knee shape predicts the future onset of radiographic knee osteoarthritis (RKO) and this variation is different in males compared to females. <i>Osteoarthritis and Cartilage</i> , 2015, 23, A208-A209. | 1.3 | 0 |
| 36 | Knee osteoarthritis image registration: data from the Osteoarthritis Initiative. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 0 |

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|----|--|-----|-----------|
| 37 | On the use of coupled shape priors for segmentation of magnetic resonance images of the knee. IEEE Journal of Biomedical and Health Informatics, 2014, 19, 1-1. | 6.3 | 6 |
| 38 | Magnetization-prepared rapid acquisition with gradient echo magnetic resonance imaging signal and texture features for the prediction of mild cognitive impairment to Alzheimer's disease progression. Journal of Medical Imaging, 2014, 1, 031005. | 1.5 | 15 |
| 39 | MRI signal and texture features for the prediction of MCI to Alzheimer's disease progression. , 2014, , . | | 1 |
| 40 | Bilateral image subtraction features for multivariate automated classification of breast cancer risk. , 2014, , . | | 2 |
| 41 | Wide association study of radiological features that predict future knee OA pain: data from the OAI. Proceedings of SPIE, 2014, , . | 0.8 | 4 |
| 42 | Quantitative MRI (QMRI) features predict symptomatic knee pain during the next year: data from the OAI. Osteoarthritis and Cartilage, 2014, 22, S262-S263. | 1.3 | 0 |
| 43 | Quantitative 3D MRI reveals limited intra-lesional bony overgrowth at 1 year after microfracture-based cartilage repair. Osteoarthritis and Cartilage, 2014, 22, 800-804. | 1.3 | 17 |
| 44 | Knee Osteoarthritis pain prediction from X-ray imaging: Data from Osteoarthritis Initiative. , 2014, , . | | 4 |
| 45 | qMRI-based risk factors for symptomatic knee pain: data from the OAI. Osteoarthritis and Cartilage, 2014, 22, S258-S259. | 1.3 | 0 |
| 46 | Osteoarthritis pain prediction using X-ray features: data from OAI. Osteoarthritis and Cartilage, 2014, 22, S275-S276. | 1.3 | 1 |
| 47 | MRI morphological and quantitative evaluation of knee allograft repair at 3, 6 and 9 months post-op: early surveillance demonstrates nascent physiological incorporation of allograft material in pain free patients. Osteoarthritis and Cartilage, 2014, 22, S154-S155. | 1.3 | 0 |
| 48 | 3D thickness maps derived from automated segmentation of knee articular cartilage at 1.5 T: a feasibility study using 3D FS DESS, 3D PD FS FSE, and 2D PD FS FSE. Osteoarthritis and Cartilage, 2014, 22, S284. | 1.3 | 1 |
| 49 | Can T2 predict who will develop ROA? Data from the OAI. Osteoarthritis and Cartilage, 2014, 22, S243-S244. | 1.3 | 0 |
| 50 | The effect of anterior cruciate ligament injury on bone curvature: exploratory analysis in the KANON trial. Osteoarthritis and Cartilage, 2014, 22, 959-968. | 1.3 | 31 |
| 51 | P3-210: T2 AND PROTON DENSITY SIGNAL- AND TEXTURE-RELATED FEATURES FOR THE PREDICTION OF MCI TO ALZHEIMER'S DISEASE PROGRESSION. , 2014, 10, P707-P708. | | 0 |
| 52 | Radiological Pain Predictors in Knee Osteoarthritis, a Four Feature Selection Comparison: Data from the OAI. Lecture Notes in Computer Science, 2014, , 351-360. | 1.3 | 1 |
| 53 | The effect of anterior cruciate ligament injury on bone curvature over 5 years: the Kanon trial. Osteoarthritis and Cartilage, 2013, 21, S138-S139. | 1.3 | 1 |
| 54 | Pre-operative evaluation of patients undergoing knee articular cartilage repair: MRI 3D thickness maps derived from a validated, automated segmentation platform - initial results. Osteoarthritis and Cartilage, 2013, 21, S202. | 1.3 | 0 |

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|----|--|-----|-----------|
| 55 | The peak adduction moment and adduction moment impulse at the knee relate to tibial and femoral cartilage morphology. Osteoarthritis and Cartilage, 2013, 21, S44. | 1.3 | 1 |
| 56 | Quantitative 3D MRI as a Valid Endpoint for Randomized Clinical Trials in Cartilage Repair and its Correlation with Repair Tissue Collagen Architecture. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2013, 29, e133-e134. | 2.7 | 2 |
| 57 | Minimum joint space width (mJSW) of patellofemoral joint on standing â€œskylineâ€•radiographs: test-retest reproducibility and comparison with quantitative magnetic resonance imaging (qMRI). Skeletal Radiology, 2013, 42, 1573-1582. | 2.0 | 4 |
| 58 | Improved multimodal biomarkers for Alzheimer's disease and mild cognitive impairment diagnosis: data from ADNI. Proceedings of SPIE, 2013, , . | 0.8 | 2 |
| 59 | Local image registration a comparison for bilateral registration mammography. , 2013, , . | | 4 |
| 60 | Predictive features of breast cancer on Mexican screening mammography patients. , 2013, , . | | 7 |
| 61 | SurvExpress: An Online Biomarker Validation Tool and Database for Cancer Gene Expression Data Using Survival Analysis. PLoS ONE, 2013, 8, e74250. | 2.5 | 646 |
| 62 | COMPADRE: an R and web resource for pathway activity analysis by component decompositions. Bioinformatics, 2012, 28, 2701-2702. | 4.1 | 9 |
| 63 | Can bone shape predict who will have their knee replaced? - Data from the oai. Osteoarthritis and Cartilage, 2012, 20, S75-S76. | 1.3 | 0 |
| 64 | A wide association study of predictors of future knee pain: data from the osteoarthritis initiative. Osteoarthritis and Cartilage, 2012, 20, S85. | 1.3 | 2 |
| 65 | Can T2 relaxation be used to predict koos other symptoms? - data from the osteoarthritis initiative. Osteoarthritis and Cartilage, 2012, 20, S208-S209. | 1.3 | 2 |
| 66 | Do location and extent of bone shape abnormalities differentiate normal knees from those with end-stage disease? - data from the OAI. Osteoarthritis and Cartilage, 2012, 20, S211-S212. | 1.3 | 0 |
| 67 | Structural biomarkers predict onset of knee pain: data from the osteoarthritis initiative. Osteoarthritis and Cartilage, 2012, 20, S34. | 1.3 | 3 |
| 68 | Equivalence and precision of knee cartilage morphometry between different segmentation teams, cartilage regions, and MR acquisitions. Osteoarthritis and Cartilage, 2012, 20, 869-879. | 1.3 | 32 |
| 69 | Unsupervised Segmentation and Quantification of Anatomical Knee Features: Data From the Osteoarthritis Initiative. IEEE Transactions on Biomedical Engineering, 2012, 59, 1177-1186. | 4.2 | 87 |
| 70 | MRI for OA Diagnosis and Drug Development. , 2012, , 1-52. | | 0 |
| 71 | 393 SPATIO-TEMPORAL ANALYSIS OF THE SIGNIFICANT CHANGES IN CARTILAGE MORPHOLOGY: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2011, 19, S181-S182. | 1.3 | 1 |
| 72 | 394 PREDICTION OF THE ONSET OF KNEE PAIN BY QUANTITATIVE MRI: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2011, 19, S182. | 1.3 | 0 |

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|----|---|-----|-----------|
| 73 | Atlas based method for the automated segmentation and quantification of knee features: Data from the osteoarthritis initiative. , 2011, , . | | 6 |
| 74 | 112 EARLY DETECTION OF CHANGES IN ARTICULAR CARTILAGE MORPHOLOGY: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S57-S58. | 1.3 | 1 |
| 75 | 119 AUTOMATED MRI ATLAS-BASED STANDARDIZED QUANTIFICATION OF SUBCHONDRAL BONE PLATE CURVATURE: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S60. | 1.3 | 0 |
| 76 | 120 DETECTION OF EARLY CHANGES IN SUBCHONDRAL BONE PLATE CURVATURE IN OA: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S60-S61. | 1.3 | 1 |
| 77 | 127 ATLAS-BASED STANDARDIZED QUANTIFICATION OF CARTILAGE THICKNESS MAPS: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S64-S65. | 1.3 | 1 |
| 78 | 420 ADVANCED MRI-BASED MEASUREMENTS AS SURROGATE MARKERS OF KOOS PAIN AND KOOS OTHER KNEE SYMPTOMS: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S187. | 1.3 | 1 |
| 79 | Region of interest analysis: by selecting regions with denuded areas can we detect greater amounts of change?. Osteoarthritis and Cartilage, 2010, 18, 175-183. | 1.3 | 19 |
| 80 | Comparison of radiographic joint space width with magnetic resonance imaging cartilage morphometry: Analysis of longitudinal data from the osteoarthritis initiative. Arthritis Care and Research, 2010, 62, 932-937. | 3.4 | 103 |
| 81 | The acutely ACL injured knee assessed by MRI: changes in joint fluid, bone marrow lesions, and cartilage during the first year. Osteoarthritis and Cartilage, 2009, 17, 161-167. | 1.3 | 133 |
| 82 | 119 OBJECTIVE IMAGE-BASED MULTIVARIABLE OA STAGE BIOMARKER: DEVELOPMENT AND CHARACTERIZATION USING THE OAI DATA SETS. Osteoarthritis and Cartilage, 2009, 17, S71-S72. | 1.3 | 0 |
| 83 | 125 CARTILAGE-BONE CONTRAST BEHAVIOR IN OAI PROGRESSION SUB-COHORT; CORRELATION TO WOMAC SCORES. Osteoarthritis and Cartilage, 2009, 17, S74-S75. | 1.3 | 4 |
| 84 | 428 CHARACTERIZATION OF A FULLY AUTOMATED KNEE SEGMENTATION SYSTEM ON THE OAI DESS SEQUENCES. Osteoarthritis and Cartilage, 2009, 17, S228. | 1.3 | 1 |
| 85 | The acutely ACL injured knee assessed by MRI: are large volume traumatic bone marrow lesions a sign of severe compression injury?. Osteoarthritis and Cartilage, 2008, 16, 829-836. | 1.3 | 98 |
| 86 | An automated system for the analysis of peri-prosthetic osteolysis progression. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 87 | Measurement of thermally ablated lesions in sonoelastographic images using level set methods. , 2008, , . | | 4 |
| 88 | Structural quantification of cartilage changes using statistical parametric mapping. , 2007, , . | | 1 |
| 89 | 323 THICKNESS DELTA MAPS: METHODOLOGY FOR THE SPATIAL DETECTION AND QUANTIFICATION LONGITUDINAL CHANGES IN CARTILAGE THICKNESS. Osteoarthritis and Cartilage, 2007, 15, C180-C181. | 1.3 | 1 |
| 90 | Segmentation by surface-to-image registration. , 2006, 6144, 41. | | 2 |

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|-----|---|-----|-----------|
| 91 | Virtual performance assessment of 3D quantification systems. , 2005, , . | | 2 |
| 92 | Semi-automated CT-based analysis of regional bone-density in contra lateral total hip replacement. , 2004, , . | | 1 |
| 93 | Local force model for cardiac dynamics analysis from volumetric image sequences. Computerized Medical Imaging and Graphics, 2003, 27, 437-446. | 5.8 | 6 |
| 94 | The Use of Sequential MR Image Sets for Determining Tibiofemoral Motion: Reliability of Coordinate Systems and Accuracy of Motion Tracking Algorithm. Journal of Biomechanical Engineering, 2003, 125, 246-253. | 1.3 | 37 |
| 95 | Evaluation of distance maps from fast GRE MRI as a tool to study the knee joint space. , 2003, , . | | 3 |
| 96 | Segmentation, surface extraction, and thickness computation of articular cartilage. , 2002, , . | | 26 |
| 97 | Volumetric computerized tomography as a measurement of periprosthetic acetabular osteolysis and its correlation with wear. Arthritis Research, 2002, 4, 59. | 2.0 | 88 |
| 98 | MRI isotropic resolution reconstruction from two orthogonal scans. , 2001, 4322, 87. | | 12 |
| 99 | Unsupervised statistical segmentation of multispectral volumetric MRI images. , 1999, , . | | 13 |
| 100 | Local force model for cardiac dynamics analysis based on CT volumetric image sequences. , 1997, 2962, 2. | | 0 |
| 101 | Cardiac dynamic analysis using hierarchical shape models and Gaussian curvature recovery: an integrated approach. , 1996, , . | | 1 |
| 102 | Incorporating Breast Asymmetry Studies into CADx Systems. , 0, , . | | 1 |