

Alejandro Sisniega

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

586
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686830

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713013

21
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48
all docs

48
docs citations

48
times ranked

641
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Technical Note: <scp>spektr</scp> 3.0-A computational tool for x-ray spectrum modeling and analysis. Medical Physics, 2016, 43, 4711-4717. | 1.6 | 170 |
| 2 | Assessment of a New High-Performance Small-Animal X-Ray Tomograph. IEEE Transactions on Nuclear Science, 2008, 55, 898-905. | 1.2 | 48 |
| 3 | Split operator method for fluorescence diffuse optical tomography using anisotropic diffusion regularisation with prior anatomical information. Biomedical Optics Express, 2011, 2, 2632. | 1.5 | 38 |
| 4 | Software architecture for multi-bed FDK-based reconstruction in X-ray CT scanners. Computer Methods and Programs in Biomedicine, 2012, 107, 218-232. | 2.6 | 37 |
| 5 | Penalized-Likelihood Reconstruction With High-Fidelity Measurement Models for High-Resolution Cone-Beam Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 988-999. | 5.4 | 24 |
| 6 | Modeling and evaluation of a high-resolution <scp>CMOS</scp> detector for cone-beam <scp>CT</scp> of the extremities. Medical Physics, 2018, 45, 114-130. | 1.6 | 22 |
| 7 | Technical assessment of a prototype cone-beam CT system for imaging of acute intracranial hemorrhage. Medical Physics, 2016, 43, 5745-5757. | 1.6 | 21 |
| 8 | Multiresolution iterative reconstruction in high-resolution extremity cone-beam CT. Physics in Medicine and Biology, 2016, 61, 7263-7281. | 1.6 | 21 |
| 9 | Motion compensation in extremity cone-beam computed tomography. Skeletal Radiology, 2019, 48, 1999-2007. | 1.2 | 20 |
| 10 | Multi-resolution statistical image reconstruction for mitigation of truncation effects: application to cone-beam CT of the head. Physics in Medicine and Biology, 2017, 62, 539-559. | 1.6 | 18 |
| 11 | Bismuth labeling for the CT assessment of local administration of magnetic nanoparticles. Nanotechnology, 2015, 26, 135101. | 1.3 | 17 |
| 12 | Cone-beam CT for imaging of the head/brain: Development and assessment of scanner prototype and reconstruction algorithms. Medical Physics, 2020, 47, 2392-2407. | 1.6 | 17 |
| 13 | Evaluation of detector readout gain mode and bowtie filters for cone-beam CT imaging of the head. Physics in Medicine and Biology, 2016, 61, 5973-5992. | 1.6 | 15 |
| 14 | Deformable motion compensation for interventional cone-beam CT. Physics in Medicine and Biology, 2021, 66, 055010. | 1.6 | 13 |
| 15 | Task-based statistical image reconstruction for high-quality cone-beam CT. Physics in Medicine and Biology, 2017, 62, 8693-8719. | 1.6 | 11 |
| 16 | Integration of free-hand 3D ultrasound and mobile C-arm cone-beam CT: Feasibility and characterization for real-time guidance of needle insertion. Computerized Medical Imaging and Graphics, 2017, 58, 13-22. | 3.5 | 9 |
| 17 | Investigation of Different Sparsity Transforms for the PICCS Algorithm in Small-Animal Respiratory Gated CT. PLoS ONE, 2015, 10, e0120140. | 1.1 | 8 |
| 18 | Method for metal artifact avoidance in C-Arm cone-beam CT. , 2020, , . | | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Reference-free learning-based similarity metric for motion compensation in cone-beam CT. Physics in Medicine and Biology, 2022, 67, 125020. | 1.6 | 7 |
| 20 | Accelerated 3D image reconstruction with a morphological pyramid and noise-power convergence criterion. Physics in Medicine and Biology, 2021, 66, 055012. | 1.6 | 5 |
| 21 | Quantitative cone-beam CT of bone mineral density using model-based reconstruction. , 2019, 10948, . | | 5 |
| 22 | VrPET/CT: Development of a rotating multimodality scanner for small-animal imaging. , 2008, , . | | 4 |
| 23 | A super-resolution feasibility study in small-animal SPECT imaging. , 2008, , . | | 4 |
| 24 | A SPECT Scanner for Rodent Imaging Based on Small-Area Gamma Cameras. IEEE Transactions on Nuclear Science, 2010, 57, 2524-2531. | 1.2 | 4 |
| 25 | Volume-of-interest CT imaging with dynamic beam filtering using multiple aperture devices. , 2018, 2018, 213-217. | | 4 |
| 26 | Validation of a retrospective respiratory gating method for small-animal CT scanners. , 2008, , . | | 3 |
| 27 | Investigation of different Compressed Sensing approaches for respiratory gating in small animal CT. , 2012, , . | | 3 |
| 28 | Image-based deformable motion compensation for interventional cone-beam CT. , 2019, , . | | 3 |
| 29 | Clinical study of soft-tissue contrast resolution in cone-beam CT of the head using multi-resolution PWLS with multi-motion correction and an electronic noise model. , 2019, , . | | 3 |
| 30 | Estimation of local deformable motion in image-based motion compensation for interventional cone-beam CT. , 2020, , . | | 3 |
| 31 | PET/CT alignment for small animal scanners based on capillary detection. , 2008, , . | | 2 |
| 32 | Comparative study of two flat-panel X-ray detectors applied to small-animal imaging cone-beam micro-CT. , 2008, , . | | 2 |
| 33 | Design and development of a co-planar fluorescence and X-ray tomograph. , 2008, , . | | 2 |
| 34 | Drill-mounted video guidance for orthopaedic trauma surgery. Journal of Medical Imaging, 2021, 8, 015002. | 0.8 | 2 |
| 35 | Cone-beam CT statistical reconstruction with a model for fluence modulation and electronic readout noise. , 2019, , . | | 2 |
| 36 | Convergence criterion for MBIR based on the local noise-power spectrum: Theory and implementation in a framework for accelerated 3D image reconstruction with a morphological pyramid. , 2019, 11072, . | | 2 |

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|----|--|-----|-----------|
| 37 | Calibration and registration of a freehand video-guided surgical drill for orthopaedic trauma. , 2020, 11315, . | | 2 |
| 38 | High-Fidelity Modeling of Detector Lag and Gantry Motion in CT Reconstruction. , 2018, 2018, 318-322. | | 2 |
| 39 | Image-based deformable motion compensation in cone-beam CT: translation to clinical studies in interventional body radiology. , 2020, , . | | 1 |
| 40 | Design and Assessment Principles of Semiconductor Flat-Panel Detector-Based X-Ray Micro-CT Systems for Small-Animal Imaging. , 2017, , 309-336. | | 1 |
| 41 | High-resolution extremity cone-beam CT with a CMOS detector: evaluation of a clinical prototype in quantitative assessment of bone microarchitecture. , 2018, 10573, . | | 1 |
| 42 | Image quality, scatter, and dose in compact CBCT systems with flat and curved detectors. , 2018, , . | | 1 |
| 43 | Evaluation of the reconstruction-of-difference (RoD) algorithm for cone-beam CT neuro-angiography. , 2018, , . | | 1 |
| 44 | Targeted deformable motion compensation for vascular interventional cone-beam CT imaging. , 2022, , . | | 1 |
| 45 | rSPECT: A compact gamma camera based SPECT system for small-animal imaging. , 2009, , . | | 0 |
| 46 | Automated dual-exposure technique to extend the dynamic range of flat-panel detectors used in small-animal cone-beam micro-CT. , 2009, , . | | 0 |
| 47 | TH-CD-206-12: Image-Based Motion Estimation for Plaque Visualization in Coronary Computed Tomography Angiography. Medical Physics, 2016, 43, 3885-3885. | 1.6 | 0 |
| 48 | An investigation of slot-scanning for mammography and breast CT. , 2020, 11312, . | | 0 |