

Alexandre Bousse

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

666
citations

759233

12
h-index

677142

22
g-index

65
all docs

65
docs citations

65
times ranked

972
citing authors

#	ARTICLE	IF	CITATIONS
1	PETPVC: a toolbox for performing partial volume correction techniques in positron emission tomography. <i>Physics in Medicine and Biology</i> , 2016, 61, 7975-7993.	3.0	117
2	Maximum-Likelihood Joint Image Reconstruction/Motion Estimation in Attenuation-Corrected Respiratory Gated PET/CT Using a Single Attenuation Map. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 217-228.	8.9	41
3	What approach to brain partial volume correction is best for PET/MRI?. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 702, 29-33.	1.6	39
4	Markov random field and Gaussian mixture for segmented MRI-based partial volume correction in PET. <i>Physics in Medicine and Biology</i> , 2012, 57, 6681-6705.	3.0	32
5	Ensemble of neural networks for 3D position estimation in monolithic PET detectors. <i>Physics in Medicine and Biology</i> , 2019, 64, 195010.	3.0	28
6	An anatomically driven anisotropic diffusion filtering method for 3D SPECT reconstruction. <i>Physics in Medicine and Biology</i> , 2012, 57, 3793-3810.	3.0	27
7	GPU accelerated rotation-based emission tomography reconstruction. , 2010, , .		26
8	Direct Parametric Reconstruction With Joint Motion Estimation/Correction for Dynamic Brain PET Data. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 203-213.	8.9	25
9	Collimator Design for a Brain SPECT/MRI Insert. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 1716-1724.	2.0	20
10	A Bayesian MAP-EM Algorithm for PET Image Reconstruction Using Wavelet Transform. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 1660-1669.	2.0	19
11	DUG-RECON: A Framework for Direct Image Reconstruction Using Convolutional Generative Networks. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 44-53.	3.7	19
12	Edge preserving bowsher prior with nonlocal weighting for 3D spect reconstruction. , 2011, , .		17
13	A Multiscale Tracking Algorithm for the Coronary Extraction in MSCT Angiography. , 2006, 2006, 3066-9.		16
14	Weighted MRI-Based bowsher priors for SPECT brain image reconstruction. , 2010, , .		14
15	Maximum-likelihood joint image reconstruction and motion estimation with misaligned attenuation in TOF-PET/CT. <i>Physics in Medicine and Biology</i> , 2016, 61, L11-L19.	3.0	14
16	Fast Quasi-Newton Algorithms for Penalized Reconstruction in Emission Tomography and Further Improvements via Preconditioning. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1000-1010.	8.9	14
17	Motion Compensated Tomography Reconstruction of Coronary Arteries in Rotational Angiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 1254-1257.	4.2	12
18	Joint Activity and Attenuation Reconstruction From Multiple Energy Window Data With Photopeak Scatter Re-Estimation in Non-TOF 3-D PET. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 410-421.	3.7	12

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19	4-D Generative Model for PET/MRI Reconstruction. Lecture Notes in Computer Science, 2011, 14, 581-588.	1.3	12
20	Evaluation of a direct motion estimation/correction method in respiratory-gated PET/MRI with motion-adjusted attenuation. Medical Physics, 2017, 44, 2379-2390.	3.0	11
21	Potential benefits of incorporating energy information when estimating attenuation from PET data. , 2017, , .		10
22	Benefits of Using a Spatially-Variant Penalty Strength With Anatomical Priors in PET Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 11-22.	8.9	10
23	Effect of attenuation mismatches in time of flight PET reconstruction. Physics in Medicine and Biology, 2020, 65, 085009.	3.0	10
24	PET respiratory motion correction: quo vadis?. Physics in Medicine and Biology, 2022, 67, 03TR02.	3.0	10
25	A blob-based tomographic reconstruction of 3D coronary trees from rotational x-ray angiography. , 2008, , .		7
26	Novel collimation for simultaneous SPECT/MRI. , 2014, , .		7
27	Joint activity/attenuation reconstruction in SPECT using photopeak and scatter sinograms. , 2016, , .		7
28	Maximum-likelihood estimation of emission and attenuation images in 3D PET from multiple energy window measurements. , 2018, , .		6
29	Joint Parametric Reconstruction and Motion Correction Framework for Dynamic PET Data. Lecture Notes in Computer Science, 2014, 17, 114-121.	1.3	6
30	Class conditional entropic prior for MRI enhanced SPECT reconstruction. , 2010, , .		5
31	Performance evaluation of MAP algorithms with different penalties, object geometries and noise levels. , 2015, , .		5
32	Algorithms for Solving Misalignment Issues in Penalized PET/CT Reconstruction Using Anatomical Priors. , 2018, , .		5
33	A Pseudo-TOF Image Reconstruction Approach for Three-Gamma Small Animal Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 826-834.	3.7	5
34	Coronary extraction and characterization in multi-detector computed tomography. IRBM News, 2006, 27, 217-226.	0.1	4
35	Collimator design in SPECT, an optimisation tool. , 2010, , .		3
36	A comparison of the options for brain partial volume correction using PET/MRI. , 2012, , .		3

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37	Performance improvement and validation of a new MAP reconstruction algorithm. , 2016, , .		3
38	PET Reconstruction With Non-Negativity Constraint in Projection Space: Optimization Through Hypo-Convergence. IEEE Transactions on Medical Imaging, 2020, 39, 75-86.	8.9	3
39	Improved PET/CT Respiratory Motion Compensation by Incorporating Changes in Lung Density. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 594-602.	3.7	3
40	LRR-CED: low-resolution reconstruction-aware convolutional encoderâ€“decoder network for direct sparse-view CT image reconstruction. Physics in Medicine and Biology, 2022, 67, 155007.	3.0	3
41	Point spread function optimization in SPECT. , 2010, , .		2
42	ET Bayesian reconstruction using automatic bandwidth selection for joint entropy optimization. , 2010, , .		2
43	Monotonic algorithm for joint entropy-based anatomical priors in parametric PET image reconstruction. , 2012, , .		2
44	Variance prediction in SPECT reconstruction based on the Fisher information using a novel angular blurring algorithm for computation of the system matrix. , 2013, , .		2
45	Design optimization and evaluation of a human brain SPECT-MRI insert based on high-resolution detectors and slit-slat collimators. , 2013, , .		2
46	Collimator design for a clinical brain SPECT/MRI insert. EJNMMI Physics, 2014, 1, A21.	2.7	2
47	4-D PET joint image reconstruction/non-rigid motion estimation with limited MRI prior information. EJNMMI Physics, 2014, 1, A27.	2.7	2
48	Framework for the construction of a Monte Carlo simulated brain PETâ€“MR image database. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 734, 162-165.	1.6	2
49	Evaluation of a partial ring design for the INSERT SPECT/MRI system. EJNMMI Physics, 2015, 2, A47.	2.7	2
50	Joint reconstruction of activity and attenuation in dynamic PET. , 2016, , .		2
51	Spatially-variant Strength for Anatomical Priors in PET Reconstruction. , 2017, , .		2
52	Multi-channel convolutional analysis operator learning for dual-energy CT reconstruction. Physics in Medicine and Biology, 2022, 67, 065001.	3.0	2
53	Temporal Tracking of Coronaries in MSCTA by Means of 3D Geometrical Moments. , 2006, 2006, 924-7.		1
54	Simulation Environment for the Evaluation of 3D Coronary Tree Reconstruction Algorithms in Rotational Angiography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4484-7.	0.5	1

#	ARTICLE	IF	CITATIONS
55	An algorithm for direct 4-D PET image reconstruction/non-rigid motion estimation with limited MRI prior information. , 2014, , .		1
56	Mass Preservation for Respiratory Motion Registration in both PET and CT. , 2019, , .		1
57	Respiratory Motion Correction in Dynamic PET with a Single Attenuation Map. , 2019, , .		1
58	Penalized PET/CT Reconstruction Algorithms With Automatic Realignment for Anatomical Priors. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 362-372.	3.7	1
59	Detection Efficiency Modeling and Joint Activity and Attenuation Reconstruction in Non-TOF 3-D PET From Multiple-Energy Window Data. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 87-97.	3.7	1
60	Motion estimation in X-ray rotational angiography using a 3-D deformable coronary tree model. , 2008, , .		0
61	Unifying global and local statistical measures for anatomy-guided emission tomography reconstruction. , 2012, , .		0
62	A Single Dual-Tracer PET Imaging Acquisition to Provide Information on Tumor Heterogeneities. , 2020, , .		0
63	Normalisation Factor Estimation in non-TOF 3D PET from Multiple-Energy Window Data. , 2020, , .		0