Abolfazl Mehranian

List of Publications by Year
in descending order

37 papers	1,021 citations	430442 18 h-index	580395 25 g-index
37 all docs	37 docs citations	37 times ranked	1039 citing authors

#	Article	IF	Citations
1	Image enhancement of whole-body oncology [18F]-FDG PET scans using deep neural networks to reduce noise. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 539-549.	3.3	30
2	Multimodal PET/CT Tumour Segmentation andÂPrediction ofÂProgression-Free Survival Using aÂFull-Scale UNet withÂAttention. Lecture Notes in Computer Science, 2022, , 189-201.	1.0	7
3	Deep learningâ€"based time-of-flight (ToF) image enhancement of non-ToF PET scans. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3740-3749.	3.3	20
4	Model-Based Deep Learning PET Image Reconstruction Using Forwardâ€"Backward Splitting Expectationâ€"Maximization. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 54-64.	2.7	69
5	Deep Learning for PET Image Reconstruction. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 1-25.	2.7	128
6	Motionâ€corrected and highâ€resolution anatomically assisted (MOCHA) reconstruction of arterial spin labeling MRI. Magnetic Resonance in Medicine, 2020, 84, 1306-1320.	1.9	4
7	Intercomparison of MRâ€informed PET image reconstruction methods. Medical Physics, 2019, 46, 5055-5074.	1.6	19
8	Enhancement of Partial Volume Correction in MR-Guided PET Image Reconstruction by Using MRI Voxel Sizes. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 315-326.	2.7	11
9	Clinical Assessment Of MR-Assisted PET Image Reconstruction Algorithms for Low-Dose Brain PET Imaging. , 2019, , .		3
10	Model-Based Deep Learning PET Image Reconstruction Using Forward-Backward Splitting Expectation Maximisation. , 2019, , .		3
11	Multi-Module Deep Learning for Enhanced and Accelerated PET Image Reconstruction. , 2019, , .		0
12	Multiâ€modal synergistic PET and MR reconstruction using mutually weighted quadratic priors. Magnetic Resonance in Medicine, 2019, 81, 2120-2134.	1.9	17
13	Synergistic PET and SENSE MR Image Reconstruction Using Joint Sparsity Regularization. IEEE Transactions on Medical Imaging, 2018, 37, 20-34.	5.4	35
14	Intercomparison of MR-Informed Methods for PET Image Reconstruction. , 2018, , .		0
15	MR-Guided Kernel EM Reconstruction for Reduced Dose PET Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 235-243.	2.7	52
16	MR-guided joint reconstruction of activity and attenuation in brain PET-MR. NeuroImage, 2017, 162, 276-288.	2.1	24
17	Multi-modal weighted quadratic priors for robust intensity independent synergistic PET-MR reconstruction. , 2017, , .		0
18	ML and MAP PET reconstruction with MR-voxel sizes for simultaneous PET-MR. , 2017, , .		1

#	Article	IF	Citations
19	MR-Resolution Kernel Method for PET Reconstruction. , 2017, , .		1
20	PET image reconstruction using multi-parametric anato-functional priors. Physics in Medicine and Biology, 2017, 62, 5975-6007.	1.6	54
21	Direct 4D slice-wise whole-body parametric PET image reconstruction for continuous bed motion acquisitions. , 2016, , .		5
22	Vision 20/20: Magnetic resonance imagingâ€guided attenuation correction in PET/MRI: Challenges, solutions, and opportunities. Medical Physics, 2016, 43, 1130-1155.	1.6	121
23	Assessment of metal artifact reduction methods in pelvic CT. Medical Physics, 2016, 43, 1588-1597.	1.6	18
24	Quantitative analysis of MRI-guided attenuation correction techniques in time-of-flight brain PET/MRI. NeuroImage, 2016, 130, 123-133.	2.1	45
25	Error propagation reduction in direct 4D image reconstruction using time-of-flight PET. , 2015, , .		0
26	Impact of time-of-flight image reconstruction in PET parametric imaging. , 2015, , .		0
27	Multi-bed tracer kinetic imaging of micro-parameters from dynamic time-of-flight PET data. , 2015, , .		1
28	Emission-based estimation of lung attenuation coefficients for attenuation correction in time-of-flight PET/MR. Physics in Medicine and Biology, 2015, 60, 4813-4833.	1.6	29
29	Impact of Time-of-Flight PET on Quantification Errors in MR Imagingâ€"Based Attenuation Correction. Journal of Nuclear Medicine, 2015, 56, 635-641.	2.8	82
30	Clinical Assessment of Emission- and Segmentation-Based MR-Guided Attenuation Correction in Whole-Body Time-of-Flight PET/MR Imaging. Journal of Nuclear Medicine, 2015, 56, 877-883.	2.8	30
31	Joint Estimation of Activity and Attenuation in Whole-Body TOF PET/MRI Using Constrained Gaussian Mixture Models. IEEE Transactions on Medical Imaging, 2015, 34, 1808-1821.	5.4	85
32	MR constrained simultaneous reconstruction of activity and attenuation maps in brain TOF-PET/MR imaging. EJNMMI Physics, 2014, 1, A55.	1.3	6
33	Joint estimation of activity and attenuation in PET/MR using MR-constrained Gaussian priors. , 2014, , .		0
34	X-ray CT Metal Artifact Reduction Using Wavelet Domain <formula formulatype="inline"><tex Notation="TeX">L_{0}</tex></formula> Sparse Regularization. IEEE Transactions on Medical Imaging, 2013, 32, 1707-1722.	5.4	72
35	3D Prior Image Constrained Projection Completion for X-ray CT Metal Artifact Reduction. IEEE Transactions on Nuclear Science, 2013, 60, 3318-3332.	1.2	28
36	Smoothly Clipped Absolute Deviation (SCAD) regularization for compressed sensing MRI Using an augmented Lagrangian scheme. Magnetic Resonance Imaging, 2013, 31, 1399-1411.	1.0	15

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37	An ordered‐subsets proximal preconditioned gradient algorithm for edge‐preserving PET image reconstruction. Medical Physics, 2013, 40, 052503.	1.6	6