Frederic Noo

List of Publications by Year in Descending Order

50 papers	1,784 citations	19 h-index	42 g-index
55 ext. papers	2,138 ext. citations	4.6 avg, IF	4.58 L-index

#	Paper	IF	Citations
50	C-arm CT imaging with the extended line-ellipse-line trajectory: first implementation on a state-of-the-art robotic angiography system. *Physics in Medicine and Biology*, **2020**, 65, 185016	3.8	1
49	Quantification of Tomographic Incompleteness in Cone-Beam Reconstruction. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2020**, 4, 63-80	4.2	4
48	Accelerating iterative coordinate descent using a stored system matrix. *Medical Physics*, **2019**, 46, e801-e809	4.4	4
47	Impact of the non-negativity constraint in model-based iterative reconstruction from CT data. *Medical Physics*, **2019**, 46, e835-e854	4.4	3
46	Technical Note: FreeCT_ICD: An open-source implementation of a model-based iterative reconstruction method using coordinate descent optimization for CT imaging investigations. *Medical Physics*, **2018**, 45, 3591	4.4	3
45	The effect of radiation dose reduction on computer-aided detection (CAD) performance in a low-dose lung cancer screening population. *Medical Physics*, **2017**, 44, 1337-1346	4.4	11
44	Accurate Transaxial Region-of-Interest Reconstruction in Helical CT?. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2017**, 1, 334-345	4.2	3
43	Extended ellipse-line-ellipse trajectory for long-object cone-beam imaging with a mounted C-arm system. *Physics in Medicine and Biology*, **2016**, 61, 1829-51	3.8	5
42	A comparison of linear interpolation models for iterative CT reconstruction. *Medical Physics*, **2016**, 43, 6455	4.4	12
41	Technical Note: FreeCT_wFBP: A robust, efficient, open-source implementation of weighted filtered backprojection for helical, fan-beam CT. *Medical Physics*, **2016**, 43, 1411-20	4.4	20
40	Exact confidence intervals for channelized Hotelling observer performance in image quality studies. *IEEE Transactions on Medical Imaging*, **2015**, 34, 453-64	11.7	26
39	New Theoretical Results on Channelized Hotelling Observer Performance Estimation with Known Difference of Class Means. *IEEE Transactions on Nuclear Science*, **2013**, 60, 182-193	1.7	7
38	Accurate image reconstruction using real C-arm data from a Circle-plus-arc trajectory. *International Journal of Computer Assisted Radiology and Surgery*, **2012**, 7, 73-86	3.9	1
37	A nonparametric procedure for comparing the areas under correlated LROC curves. *IEEE Transactions on Medical Imaging*, **2012**, 31, 2050-61	11.7	12
36	On Efficient Assessment of Image-Quality Metrics Based on Linear Model Observers. *IEEE Transactions on Nuclear Science*, **2012**, 59, 568-578	1.7	4
35	Dedicated breast CT: radiation dose for circle-plus-line trajectory. *Medical Physics*, **2012**, 39, 1530-41	4.4	21
34	Simulation tools for two-dimensional experiments in x-ray computed tomography using the FORBILD head phantom. *Physics in Medicine and Biology*, **2012**, 57, N237-52	3.8	45

33	Confidence intervals for performance assessment of linear observers. *Medical Physics*, **2011**, 38 Suppl 1, S57	4.4	9
32	Line plus arc source trajectories and their R-line coverage for long-object cone-beam imaging with a C-arm system. *Physics in Medicine and Biology*, **2011**, 56, 3447-71	3.8	5
31	Cone-beam artifact evaluation of the factorization method. *Medical Physics*, **2011**, 38 Suppl 1, S18	4.4	3
30	Practical estimation of detectability maps for assessment of CT scanner performance **2010**,		2
29	Estimation of trained-observer performance with known difference of class means **2010**,		2
28	Band-restricted estimation of noise variance in filtered backprojection reconstructions using repeated scans. *IEEE Transactions on Medical Imaging*, **2010**, 29, 1097-113	11.7	4
27	Exact Efficient Handling of Interrupted Illumination in Helical Cone-Beam Computed Tomography with Arbitrary Pitch. *Tsinghua Science and Technology*, **2010**, 15, 36-43	3.4	
26	Accurate helical cone-beam CT reconstruction with redundant data. *Physics in Medicine and Biology*, **2009**, 54, 4625-44	3.8	6
25	Estimation of channelized hotelling observer performance with known class means or known difference of class means. *IEEE Transactions on Medical Imaging*, **2009**, 28, 1198-207	11.7	15
24	A local shift-variant Fourier model and experimental validation of circular cone-beam computed tomography artifacts. *Medical Physics*, **2009**, 36, 500-12	4.4	45
23	A factorization approach for cone-beam reconstruction on a circular short-scan. *IEEE Transactions on Medical Imaging*, **2008**, 27, 887-96	11.7	16
22	Evaluation of the impact of tube current modulation on lesion detectability using model observers. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 2705-8	0.9	6
21	Image covariance and lesion detectability in direct fan-beam x-ray computed tomography. *Physics in Medicine and Biology*, **2008**, 53, 2471-93	3.8	89
20	Tiny a priori knowledge solves the interior problem in computed tomography. *Physics in Medicine and Biology*, **2008**, 53, 2207-31	3.8	156
19	Accuracy of channelized hotelling observer performance measures estimated from repeated CT scans **2008**,		1
18	Truncation correction for oblique filtering lines. *Medical Physics*, **2008**, 35, 5910-20	4.4	8
17	A new scheme for view-dependent data differentiation in fan-beam and cone-beam computed tomography. *Physics in Medicine and Biology*, **2007**, 52, 5393-414	3.8	15
16	Geometric calibration of the circle-plus-arc trajectory. *Physics in Medicine and Biology*, **2007**, 52, 6943-60	3.8	14

15	Cone-beam Tomography from Short-Scan Circle-plus-Arc Data Measured on a C-arm System **2006**,		3
14	Truncated Hilbert transform and image reconstruction from limited tomographic data. *Inverse Problems*, **2006**, 22, 1037-1053	2.3	140
13	Cone-beam reconstruction using the backprojection of locally filtered projections. *IEEE Transactions on Medical Imaging*, **2005**, 24, 70-85	11.7	128
12	Cone-beam reconstruction using 1D filtering along the projection of M -lines. *Inverse Problems*, **2005**, 21, 1105-1120	2.3	65
11	Investigation of saddle trajectories for cardiac CT imaging in cone-beam geometry. *Physics in Medicine and Biology*, **2004**, 49, 2317-36	3.8	57
10	Exact and approximate algorithms for helical cone-beam CT. *Physics in Medicine and Biology*, **2004**, 49, 2913-31	3.8	31
9	The cone-beam algorithm of Feldkamp, Davis, and Kress preserves oblique line integrals. *Medical Physics*, **2004**, 31, 1972-5	4.4	24
8	General reconstruction theory for multislice X-ray computed tomography with a gantry tilt. *IEEE Transactions on Medical Imaging*, **2004**, 23, 1109-16	11.7	22
7	A two-step Hilbert transform method for 2D image reconstruction. *Physics in Medicine and Biology*, **2004**, 49, 3903-23	3.8	218
6	Improved two-dimensional rebinning of helical cone-beam computerized tomography data using John s equation. *Inverse Problems*, **2003**, 19, S41-S54	2.3	15
5	Exact helical reconstruction using native cone-beam geometries. *Physics in Medicine and Biology*, **2003**, 48, 3787-818	3.8	115
4	Rebinning-based algorithms for helical cone-beam CT. *Physics in Medicine and Biology*, **2001**, 46, 2911-37	3.8	15
3	Analytic method based on identification of ellipse parameters for scanner calibration in cone-beam tomography. *Physics in Medicine and Biology*, **2000**, 45, 3489-508	3.8	164
2	A solution to the long-object problem in helical cone-beam tomography. *Physics in Medicine and Biology*, **2000**, 45, 623-43	3.8	107
1	Cone-beam filtered-backprojection algorithm for truncated helical data. *Physics in Medicine and Biology*, **1998**, 43, 2885-909	3.8	102