

# Taly Gilat Schmidt

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

824  
citations

623188

14  
h-index

500791

28  
g-index

52  
all docs

52  
docs citations

52  
times ranked

704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pediatric chestâ€¦abdomenâ€¦pelvis and abdomenâ€¦pelvis CT images with expert organ contours. Medical Physics, 2022, 49, 3523-3528.	1.6	7
2	Technical note: Evaluation of a Vâ€¦Net autosegmentation algorithm for pediatric CT scans: Performance, generalizability, and application to patientâ€¦specific CT dosimetry. Medical Physics, 2022, 49, 2342-2354.	1.6	5
3	Addressing CT metal artifacts using photonâ€¦counting detectors and oneâ€¦step spectral CT image reconstruction. Medical Physics, 2022, 49, 3021-3040.	1.6	11
4	Reduced Chest Computed Tomography Scan Length for Patients Positive for Coronavirus Disease 2019: Dose Reduction and Impact on Diagnostic Utility. Journal of Computer Assisted Tomography, 2022, Publish Ahead of Print, .	0.5	0
5	Experimental study of photon-counting CT neural network material decomposition under conditions of pulse pileup. Journal of Medical Imaging, 2021, 8, 013502.	0.8	5
6	Validation of a deterministic linear Boltzmann transport equation solver for rapid CT dose computation using physical dose measurements in pediatric phantoms. Medical Physics, 2021, , .	1.6	1
7	Experimental investigation of neural network estimator and transfer learning techniques for Kâ€¦edge spectral CT imaging. Medical Physics, 2020, 47, 541-551.	1.6	12
8	Deterministic linear Boltzmann transport equation solver for patientâ€¦specific CT dose estimation: Comparison against a Monte Carlo benchmark for realistic scanner configurations and patient models. Medical Physics, 2020, 47, 6470-6483.	1.6	4
9	Future Prospects of Spectral CT: Photon Counting. , 2020, , 269-286.		2
10	Estimation of changing gross tumor volume from longitudinal CTs during radiation therapy delivery based on a texture analysis with classifier algorithms: a proof-of-concept study. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1189-1200.	1.1	0
11	<sc>CT</sc> automated exposure control using a generalized detectability index. Medical Physics, 2019, 46, 140-151.	1.6	3
12	A fast, linear Boltzmann transport equationâ€¦solver for computed tomography dose calculation (Acuros <sc>CTD</sc>). Medical Physics, 2019, 46, 925-933.	1.6	11
13	Estimating the spectrum in computed tomography via Kullbackâ€¦Leibler divergence constrained optimization. Medical Physics, 2019, 46, 81-92.	1.6	22
14	Alternating Minimization Based Framework for Simultaneous Spectral Calibration and Image Reconstruction in Spectral CT. , 2018, , .		1
15	A Spectral CT Method to Directly Estimate Basis Material Maps From Experimental Photon-Counting Data. IEEE Transactions on Medical Imaging, 2017, 36, 1808-1819.	5.4	41
16	Biplane fluoroscopy for hindfoot motion analysis during gait: A model-based evaluation. Medical Engineering and Physics, 2017, 43, 118-123.	0.8	22
17	An algorithm for constrained one-step inversion of spectral CT data. Physics in Medicine and Biology, 2016, 61, 3784-3818.	1.6	118
18	Task-based detectability comparison of exponential transformation of free-response operating characteristic (EFROC) curve and channelized Hotelling observer (CHO). Proceedings of SPIE, 2016, , .	0.8	0

#	ARTICLE	IF	CITATIONS
19	Comparison of quantitative k-edge empirical estimators using an energy-resolved photon-counting detector. Proceedings of SPIE, 2016, , .	0.8	1
20	Accuracy of patient-specific organ dose estimates obtained using an automated image segmentation algorithm. Journal of Medical Imaging, 2016, 3, 043502.	0.8	10
21	Quantifying cross-scatter contamination in biplane fluoroscopy motion analysis systems. Journal of Medical Imaging, 2015, 2, 043503.	0.8	5
22	Technical Note: Phantom study to evaluate the dose and image quality effects of a computed tomography organ-based tube current modulation technique. Medical Physics, 2015, 42, 6572-6578.	1.6	28
23	Investigation of a one-step spectral CT reconstruction algorithm for direct inversion into basis material images. Proceedings of SPIE, 2015, , .	0.8	1
24	The effects of extending the spectral information acquired by a photon-counting detector for spectral CT. Physics in Medicine and Biology, 2015, 60, 1583-1600.	1.6	17
25	Experimental comparison of empirical material decomposition methods for spectral CT. Physics in Medicine and Biology, 2015, 60, 3175-3191.	1.6	39
26	Evaluation of spectral CT data acquisition methods via non-stochastic variance maps. , 2015, , .		1
27	Experimental study of two material decomposition methods using multi-bin photon counting detectors. Proceedings of SPIE, 2014, , .	0.8	1
28	Effects of energy-bin acquisition methods on noise properties in photon-counting spectral CT. Proceedings of SPIE, 2014, , .	0.8	0
29	The Performance of MLEM for Dynamic Imaging From Simulated Few-View, Multi-Pinhole SPECT. IEEE Transactions on Nuclear Science, 2013, 60, 115-123.	1.2	8
30	Quantifying cross scatter in biplane fluoroscopy motion analysis systems. Proceedings of SPIE, 2013, , .	0.8	0
31	Reducing radiation dose to the female breast during CT coronary angiography: A simulation study comparing breast shielding, angular tube current modulation, reduced kV, and partial angle protocols using an unknown-location signal-detectability metric. Medical Physics, 2013, 40, 081921.	1.6	7
32	The effects of gantry tilt on breast dose and image noise in cardiac CT. Medical Physics, 2013, 40, 121905.	1.6	2
33	Response to "Comment on "Estimation of organ and effective dose due to Compton backscatter security scans" [Med. Phys., 39, 3396 (2012)]. Medical Physics, 2012, 39, 5785-5787.	1.6	0
34	A first-order primal-dual reconstruction algorithm for few-view SPECT. , 2012, , .		0
35	Estimation of organ and effective dose due to Compton backscatter security scans. Medical Physics, 2012, 39, 3396-3403.	1.6	4
36	A database for estimating organ dose for coronary angiography and brain perfusion CT scans for arbitrary spectra and angular tube current modulation. Medical Physics, 2012, 39, 5336-5346.	1.6	8

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37	An empirical method for correcting the detector spectral response in energy-resolved CT. Proceedings of SPIE, 2012, , .	0.8	6
38	What is inverse-geometry CT?. Journal of Cardiovascular Computed Tomography, 2011, 5, 145-148.	0.7	7
39	Region-of-interest material decomposition from truncated energy-resolved CT. Medical Physics, 2011, 38, 5657-5666.	1.6	14
40	Quantifying the tibiofemoral joint space using x-ray tomosynthesis. Medical Physics, 2011, 38, 6672-6682.	1.6	16
41	A compressed sensing algorithm for sparse-view pinhole Single Photon Emission Computed Tomography. , 2011, , .		1
42	Multi-pinhole dynamic SPECT imaging: simulation and system optimization. Proceedings of SPIE, 2010, , .	0.8	1
43	CT energy weighting in the presence of scatter and limited energy resolution. Medical Physics, 2010, 37, 1056-1067.	1.6	56
44	Dedicated Breast CT: Current Status and New Directions. Current Medical Imaging, 2010, 6, 61-71.	0.4	4
45	Simulated scatter performance of an inverse-geometry dedicated breast CT system. Medical Physics, 2009, 36, 788-796.	1.6	18
46	Optimal image-based weighting for energy-resolved CT. Medical Physics, 2009, 36, 3018-3027.	1.6	171
47	Preliminary feasibility of dedicated breast CT with an inverse geometry. Proceedings of SPIE, 2009, , .	0.8	2
48	A prototype table-top inverse-geometry volumetric CT system. Medical Physics, 2006, 33, 1867-1878.	1.6	45
49	A three-dimensional reconstruction algorithm for an inverse-geometry volumetric CT system. Medical Physics, 2005, 32, 3234-3245.	1.6	17
50	Reply to "Comment on "An inverse-geometry volumetric CT system with a large-area scanned source: A feasibility study" [Med. Phys. 32, 635 (2005)]. Medical Physics, 2005, 32, 636-636.	1.6	0
51	An inverse-geometry volumetric CT system with a large-area scanned source: A feasibility study. Medical Physics, 2004, 31, 2623-2627.	1.6	68