Zhengrong Liang

List of Publications by Year
in descending order

164	4,418	147801	114465
papers	citations	31	63
		h-index	g-index

164	164	164	2917
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Adaptive Learning Model for Multiscale Texture Features in Polyp Classification via Computed Tomographic Colonography. Sensors, 2022, 22, 907.	3.8	5
2	Vector textures derived from higher order derivative domains for classification of colorectal polyps. Visual Computing for Industry, Biomedicine, and Art, 2022, 5, .	3.7	3
3	A dynamic lesion model for differentiation of malignant and benign pathologies. Scientific Reports, 2021, 11, 3485.	3.3	9
4	Textured-Based Deep Learning in Prostate Cancer Classification with 3T Multiparametric MRI: Comparison with PI-RADS-Based Classification. Diagnostics, 2021, 11, 1785.	2.6	13
5	3D-GLCM CNN: A 3-Dimensional Gray-Level Co-Occurrence Matrix-Based CNN Model for Polyp Classification via CT Colonography. IEEE Transactions on Medical Imaging, 2020, 39, 2013-2024.	8.9	75
6	A Task-Dependent Investigation on Dose and Texture in CT Image Reconstruction. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 441-449.	3.7	7
7	Contrast-Medium Anisotropy-Aware Tensor Total Variation Model for Robust Cerebral Perfusion CT Reconstruction With Low-Dose Scans. IEEE Transactions on Computational Imaging, 2020, 6, 1375-1388.	4.4	7
8	Characterization of tissueâ€specific preâ€log Bayesian CT reconstruction by textureâ€"dose relationship. Medical Physics, 2020, 47, 5032-5047.	3.0	6
9	Predicting Unnecessary Nodule Biopsies from a Small, Unbalanced, and Pathologically Proven Dataset by Transfer Learning. Journal of Digital Imaging, 2020, 33, 685-696.	2.9	5
10	Spectral CT Reconstruction via Low-Rank Representation and Region-Specific Texture Preserving Markov Random Field Regularization. IEEE Transactions on Medical Imaging, 2020, 39, 2996-3007.	8.9	11
11	Elaboration of a multimodal MRI-based radiomics signature for the preoperative prediction of the histological subtype in patients with non-small-cell lung cancer. BioMedical Engineering OnLine, 2020, 19, 5.	2.7	23
12	Constructing a tissue-specific texture prior by machine learning from previous full-dose scan for Bayesian reconstruction of current ultralow-dose CT images. Journal of Medical Imaging, 2020, 7, 1.	1.5	4
13	An Adaptive Multi-channel Feature-fusion Model for Polyp Classification. , 2020, , .		0
14	An Expert-driven Computer-aided Classification for Database Construction: Its Impact to Predict Polyp Sub-types via Computed Tomographic Colonography. , 2020, , .		0
15	Hyperparameter Selection for Bayesian Image Reconstruction by Mimicking Physical Crystallization. , 2020, , .		1
16	Differentiating COVID-19 Cases from Others by an Anatomy Similarity-Inspired Sensitive Merit from CT Images. , 2020, , .		0
17	An investigation of CNN models for differentiating malignant from benign lesions using small pathologically proven datasets. Computerized Medical Imaging and Graphics, 2019, 77, 101645.	5.8	34
18	Regularized reconstruction based on joint L_1 and total variation for sparse-view cone-beam X-ray luminescence computed tomography. Biomedical Optics Express, 2019, 10, 1.	2.9	23

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19	A predictive nomogram for individualized recurrence stratification of bladder cancer using multiparametric MRI and clinical risk factors. Journal of Magnetic Resonance Imaging, 2019, 50, 1893-1904.	3.4	60
20	Partial volume correction for arterial spin labeling using the inherent perfusion information of multiple measurements. BioMedical Engineering OnLine, 2019, 18, 12.	2.7	2
21	An Adaptive Boosting Strategy for GLCM-CNN Model in Differentiating the Malignant from Benign Polyps. , 2019, , .		0
22	Spectral CT Inspired Data Engineering for Colon Polyp Classification. , 2019, , .		1
23	GLCM-CNN: Gray Level Co-occurrence Matrix based CNN Model for Polyp Diagnosis. , 2019, , .		13
24	A Feasibility Study of Extracting Tissue Textures From a Previous Full-Dose CT Database as Prior Knowledge for Bayesian Reconstruction of Current Low-Dose CT Images. IEEE Transactions on Medical Imaging, 2019, 38, 1981-1992.	8.9	24
25	Expert knowledge-infused deep learning for automatic lung nodule detection. Journal of X-Ray Science and Technology, 2019, 27, 17-35.	1.0	30
26	Quantitative Identification of Nonmuscle‐Invasive and Muscle‐Invasive Bladder Carcinomas: A Multiparametric MRI Radiomics Analysis. Journal of Magnetic Resonance Imaging, 2019, 49, 1489-1498.	3.4	71
27	Volumetric Textural Analysis of Colorectal Masses at CT Colonography. Academic Radiology, 2019, 26, 30-37.	2.5	10
28	Multilayer feature selection method for polyp classification via computed tomographic colonography. Journal of Medical Imaging, 2019, 6, 1.	1.5	8
29	Bayesian reconstruction of ultralow-dose CT images with texture prior from existing diagnostic full-dose CT database. , 2019, , .		2
30	A machine learning approach to construct a tissue-specific texture prior from previous full-dose CT for Bayesian reconstruction of current ultralow-dose CT images. , 2019, , .		4
31	Improved computer-aided detection of pulmonary nodules via deep learning in the sinogram domain. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 15.	3.7	6
32	Energy enhanced tissue texture in spectral computed tomography for lesion classification. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 16.	3.7	3
33	Multi-scale characterizations of colon polyps via computed tomographic colonography. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 25.	3.7	9
34	A new Mumford–Shah total variation minimization based model for sparse-view x-ray computed tomography image reconstruction. Neurocomputing, 2018, 285, 74-81.	5.9	10
35	A sparse representation and dictionary learning based algorithm for image restoration in the presence of Rician noise. Neurocomputing, 2018, 286, 130-140.	5.9	16
36	Radiomics Strategy for Molecular Subtype Stratification of Lower‐Grade Glioma: Detecting IDH and *TP53* Mutations Based on Multimodal MRI. Journal of Magnetic Resonance Imaging, 2018, 48, 916-926.	3.4	89

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37	A hybrid CNN feature model for pulmonary nodule malignancy risk differentiation. Journal of X-Ray Science and Technology, 2018, 26, 171-187.	1.0	43
38	A Novel Hybrid Active Contour Model for Medical Image Segmentation Driven by Legendre Polynomials. , 2018, , .		1
39	Characterizing CT Reconstruction of Pre-log Transmission Data toward Ultra-low Dose Imaging by Texture Measures. , 2018, , .		2
40	A New Look at Gray-level Co-occurrence for Multi-scale Texture Descriptor with Applications to Characterize Colorectal Polyps via Computed Tomographic Colonography. , 2018, , .		1
41	Statistical CT reconstruction using region-aware texture preserving regularization learning from prior normal-dose CT image. Physics in Medicine and Biology, 2018, 63, 225020.	3.0	2
42	Different Lung Nodule Detection Tasks at Different Dose Levels by Different Computed Tomography Image Reconstruction Strategies. , 2018, , .		5
43	Applications of nonlocal means algorithm in low‐dose X‐ray <scp>CT</scp> image processing and reconstruction: A review. Medical Physics, 2017, 44, 1168-1185.	3.0	79
44	Radiomics assessment of bladder cancer grade using texture features from diffusion‐weighted imaging. Journal of Magnetic Resonance Imaging, 2017, 46, 1281-1288.	3.4	123
45	Iterative reconstruction for sparse-view X-ray CT using alpha-divergence constrained total generalized variation minimization. Journal of X-Ray Science and Technology, 2017, 25, 673-688.	1.0	14
46	Assessment of prior image induced nonlocal means regularization for low‐dose <scp>CT</scp> reconstruction: Change in anatomy. Medical Physics, 2017, 44, e264-e278.	3.0	14
47	Low-Dose Dynamic Cerebral Perfusion Computed Tomography Reconstruction via Kronecker-Basis-Representation Tensor Sparsity Regularization. IEEE Transactions on Medical Imaging, 2017, 36, 2546-2556.	8.9	27
48	Robust Low-Dose CT Sinogram Preprocessing via Exploiting Noise-Generating Mechanism. IEEE Transactions on Medical Imaging, 2017, 36, 2487-2498.	8.9	44
49	Guest Editorial Low-Dose CT: What Has Been Done, and What Challenges Remain?. IEEE Transactions on Medical Imaging, 2017, 36, 2409-2416.	8.9	19
50	A Fractional Active Contour Model for Medical Image Segmentation. , 2017, , .		2
51	Texture Feature Analysis of Neighboring Colon Wall for Colorectal Polyp Classification. , 2017, , .		4
52	Low-dose cerebral perfusion computed tomography image restoration via low-rank and total variation regularizations. Neurocomputing, 2016, 197, 143-160.	5.9	33
53	Texture-preserved penalized weighted least-squares reconstruction of low-dose CT image via image segmentation and high-order MRF modeling. Proceedings of SPIE, 2016, , .	0.8	3
54	Robust dynamic myocardial perfusion CT deconvolution for accurate residue function estimation via adaptive-weighted tensor total variation regularization: a preclinical study. Physics in Medicine and Biology, 2016, 61, 8135-8156.	3.0	14

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55	Noise suppression for cerebral perfusion CT via intrinsic tensor sparsity regularization: Initial study. , 2016, , .		0
56	Statistical image reconstruction for low-dose dual energy CT using alpha-divergence constrained spectral redundancy information. , 2016, , .		0
57	Texture Feature Extraction and Analysis for Polyp Differentiation via Computed Tomography Colonography. IEEE Transactions on Medical Imaging, 2016, 35, 1522-1531.	8.9	75
58	Extracting Information From Previous Full-Dose CT Scan for Knowledge-Based Bayesian Reconstruction of Current Low-Dose CT Images. IEEE Transactions on Medical Imaging, 2016, 35, 860-870.	8.9	59
59	Iteratively reweighted least-squares implementation for accurate extraction of prior knowledge for Bayesian image reconstruction. , 2015, , .		0
60	New texture features for improved differentiation of hyperplastic polyps from adenomas via computed tomography colonoscopy. , 2015, , .		0
61	A novel colon wall flattening model for computed tomographic colonography: method and validation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2015, 3, 213-221.	1.9	2
62	Statistical image reconstruction for low-dose CT using nonlocal means-based regularization. Part II: An adaptive approach. Computerized Medical Imaging and Graphics, 2015, 43, 26-35.	5.8	34
63	A Simple Low-Dose X-Ray CT Simulation From High-Dose Scan. IEEE Transactions on Nuclear Science, 2015, 62, 2226-2233.	2.0	109
64	Fast and Adaptive Detection of Pulmonary Nodules in Thoracic CT Images Using a Hierarchical Vector Quantization Scheme. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 648-659.	6.3	91
65	Texture Feature Analysis for Computer-Aided Diagnosis on Pulmonary Nodules. Journal of Digital Imaging, 2015, 28, 99-115.	2.9	214
66	An Efficient Augmented Lagrangian Method for Statistical X-Ray CT Image Reconstruction. PLoS ONE, 2015, 10, e0140579.	2.5	5
67	Adaptive kernel based multiple kernel learning for computer-aided polyp detection in CT colonography. Geometry Imaging and Computing, 2015, 2, 23-45.	0.8	0
68	Iterative image reconstruction for low-dose x-ray CT using a sinogram restoration induced edge-preserving prior. , 2014, , .		3
69	Low-mAs X-ray CT image reconstruction by adaptive-weighted TV-constrained penalized re-weighted least-squares. Journal of X-Ray Science and Technology, 2014, 22, 437-457.	1.0	13
70	Integration of 3D scale-based pseudo-enhancement correction and partial volume image segmentation for improving electronic colon cleansing in CT colonograpy. Journal of X-Ray Science and Technology, 2014, 22, 271-283.	1.0	10
71	Low-dose X-ray computed tomography image reconstruction with a combined low-mAs and sparse-view protocol. Optics Express, 2014, 22, 15190.	3.4	41
72	Deriving adaptive MRF coefficients from previous normalâ€dose CT scan for lowâ€dose image reconstruction via penalized weighted leastâ€squares minimization. Medical Physics, 2014, 41, 041916.	3.0	43

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73	Second order total generalized variation for low-dose computed tomography image reconstruction. , 2014, , .		0
74	Volumetric texture features from higher-order images for diagnosis of colon lesions via CT colonography. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 1021-1031.	2.8	65
75	Statistical image reconstruction for low-dose CT using nonlocal means-based regularization. Computerized Medical Imaging and Graphics, 2014, 38, 423-435.	5.8	64
76	Correction to "Total Variation-Stokes Strategy for Sparse-View X-ray CT Image Reconstruction"[Mar 14 749-763]. IEEE Transactions on Medical Imaging, 2014, 33, 1004-1004.	8.9	13
77	Total Variation-Stokes Strategy for Sparse-View X-ray CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2014, 33, 749-763.	8.9	91
78	Alpha divergence based registration of dynamic scans for MR cystography. , 2014, , .		1
79	An expectation-maximization approach for partial volume estimation of arterial spin labeled MRI data: A feasibility study. , 2014, , .		0
80	Multiple kernel learning with adaptive kernel method for computer-aided detection of colonic polyps. , 2014, , .		0
81	A mixture classifier for computer aided diagnosis of polyp malignancy for CT colonography. , 2014, , .		0
82	An application of KL transform in feature extraction and selection for polyp differentiation via CT colonography. , 2014, , .		0
83	Random forest based computer-aided detection of polyps in CT colonography. , 2014, , .		3
84	A Novel Colon Wall Flattening Model for Computed Tomographic Colonography: Method and Validation. Lecture Notes in Computational Vision and Biomechanics, 2014, 13, 1-14.	0.5	0
85	The segmentation of MR bladder wall in 3D based on minimum closed set model. , 2013, , .		0
86	Vector quantization-based automatic detection of pulmonary nodules in thoracic CT images. , 2013, , .		3
87	Improved area-simulating-volume method for 3D X-ray CT re-projection and back-projection operations. , 2013, , .		0
88	An approach to system optimization for X-Ray photon-counting systems using performance on a detection/localization task. , 2013, , .		0
89	A texture feature analysis for diagnosis of pulmonary nodules using LIDC-IDRI database. , 2013, , .		33
90	A novel computer aided detection (CADe) scheme for colonic polyps based on colon structure decomposition. , 2013, , .		0

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91	A comparison study of total variation stokes strategy for low-dose CT image reconstruction. , 2013, , .		0
92	Statistical sinogram restoration for single photon emission computed tomography. , 2013, , .		1
93	A feasibility study of high order texture features with application to pathological diagnosis of colon lesions for CT Colonography. , 2013, , .		0
94	Penalized weighted alpha-divergence approach to sinogram restoration for low-dose X-ray computed tomography. , 2012, , .		2
95	A comparison study of low-dose CT image reconstruction strategies by adapted weighted total variation regularization. , 2012, , .		0
96	A comparison study on KL domain penalized weighted least-squares approach to noise reduction for low-dose cone-beam CT. , 2012, , .		0
97	A feasibility study of high order volumetric texture features for computer aided diagnosis of polyps via CT colonography. , 2012, , .		3
98	Semi-supervised graph embedding-based feature extraction and adaptive kernel-based classification for computer-aided detection in CT colonography. , 2012, , .		3
99	Iterative image reconstruction for cerebral perfusion CT using a pre-contrast scan induced edge-preserving prior. Physics in Medicine and Biology, 2012, 57, 7519-7542.	3.0	137
100	Variance analysis of x-ray CT sinograms in the presence of electronic noise background. Medical Physics, 2012, 39, 4051-4065.	3.0	147
101	Sparse angular X-ray cone beam CT image iterative reconstruction using normal-dose scan induced nonlocal prior. , 2012, , .		4
102	Adaptive-weighted total variation minimization for sparse data toward low-dose x-ray computed tomography image reconstruction. Physics in Medicine and Biology, 2012, 57, 7923-7956.	3.0	265
103	A study on CT sinogram statistical distribution by information divergence theory. , 2011, , .		6
104	An investigation on computed tomography image reconstruction with compressed sensing by 1 l norm prior image constraints. , 2011, , .		1
105	A Precise calculation of bladder wall thickness for detection of bladder abnormalities via MR cystography. , 2011, , .		3
106	Efficient colon wall flattening by improved conformal mapping methodologies for computed tomography colonography. , 2011, , .		1
107	An experimental system for robotic needle biopsy of lung nodules with respiratory motion. , 2011, , .		9
108	Image fusion for low-dose computed tomography reconstruction. , 2011, , .		4

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109	A comparison study on ray-driven approximation in re-projection and back-projection for CT reconstruction. , 2011, , .		1
110	Evaluation of classifiers for computer-aided detection in computed tomography colonography. , 2011, , .		1
111	Low-dose computed tomography image restoration using previous normal-dose scan. Medical Physics, 2011, 38, 5713-5731.	3.0	190
112	Virtual colonoscopy versus optical colonoscopy. Expert Opinion on Medical Diagnostics, 2010, 4, 159-169.	1.6	14
113	Erratum to â€œAn EM Approach to MAP Solution of Segmenting Tissue Mixtures: A Numerical Analysisâ€. IEEE Transactions on Medical Imaging, 2009, 28, 631-631.	8.9	0
114	Multiscale Penalized Weighted Least-Squares Sinogram Restoration for Low-Dose X-Ray Computed Tomography. IEEE Transactions on Biomedical Engineering, 2008, 55, 1022-1031.	4.2	54
115	Virtual Colonoscopy Screening With Ultra Low-Dose CT and Less-Stressful Bowel Preparation: A Computer Simulation Study. IEEE Transactions on Nuclear Science, 2008, 55, 2566-2575.	2.0	24
116	Multiplicative versus Additive Bias Field Models for Unified Partial-Volume Segmentation and Inhomogeneity Correction in Brain MR Images. , 2008, , .		0
117	Fully 4D Cardiac Gated SPECT Reconstruction with Simultaneous Compensation in KL Domain. , 2008, , .		0
118	GUEST EDITORIAL: MEDICAL IMAGING INFORMATICS â€" AN INFORMATION PROCESSING FROM IMAGE FORMATION TO VISUALIZATION. International Journal of Image and Graphics, 2007, 07, 1-15.	1.5	2
119	Gain of KL-domain adaptive FBP image reconstruction for 4-D dynamic CT. , 2007, , .		1
120	Virtual colonoscopy screening with ultra low-dose CT: A simulation study. , 2007, , .		0
121	An Improved Analytical Reconstruction for Gated Cardiac SPECT Based on Intra-Frame Similarity. , 2007, , .		0
122	Spatially-adaptive analytical reconstruction of quantitative gated cardiac SPECT in KL domain. , 2007, , .		0
123	Model parameter estimation and tissue mixture segmentation by a MAP-EM algorithm. , 2007, , .		0
124	Penalized weighted least-squares approach to sinogram noise reduction and image reconstruction for low-dose X-ray computed tomography. IEEE Transactions on Medical Imaging, 2006, 25, 1272-1283.	8.9	425
125	Consistency Condition and ML-EM Checkerboard Artifacts. , 2006, , .		0
126	Reduction of false positives by internal features for polyp detection in CT-based virtual colonoscopy. Medical Physics, 2005, 32, 3602-3616.	3.0	92

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127	Speed up of an analytical algorithm for nonuniform attenuation correction by using PC video/graphics card architecture. IEEE Transactions on Nuclear Science, 2004, 51, 726-732.	2.0	10
128	Nonlinear sinogram smoothing for low-dose X-ray CT. IEEE Transactions on Nuclear Science, 2004, 51, 2505-2513.	2.0	248
129	MRI volumetric analysis of multiple sclerosis: methodology and validation. IEEE Transactions on Nuclear Science, 2003, 50, 1686-1692.	2.0	15
130	Analytical compensation for spatially variant detector response in SPECT with varying focal-length fan-beam collimators. IEEE Transactions on Nuclear Science, 2003, 50, 398-404.	2.0	8
131	An analytical inversion of the nonuniformly attenuated Radon transform with variable focal-length fan-beam collimators. IEEE Transactions on Nuclear Science, 2003, 50, 1541-1549.	2.0	15
132	An investigation on the property and fast implementation of a ray-driven method for inversion of the attenuated Radon transform with variable focusing fan-beam collimators. , 2003, , .		0
133	Reliable path for virtual endoscopy: ensuring complete examination of human organs. IEEE Transactions on Visualization and Computer Graphics, 2001, 7, 333-342.	4.4	46
134	Feasibility studies of virtual laryngoscopy by CT and MRI-from data acquisition, image segmentation, to interactive visualization. IEEE Transactions on Nuclear Science, 2001, 48, 51-57.	2.0	2
135	Penalized weighted least-squares image reconstruction for dual energy X-ray transmission tomography. IEEE Transactions on Medical Imaging, 2000, 19, 1075-1081.	8.9	331
136	An interactive fly-path planning using potential fields and cell decomposition for virtual endoscopy. IEEE Transactions on Nuclear Science, 1999, 46, 1045-1049.	2.0	14
137	A harmonic decomposition reconstruction algorithm for spatially varying focal length collimators. IEEE Transactions on Medical Imaging, 1998, 17, 995-1002.	8.9	13
138	Validation of the central-ray approximation for attenuated depth-dependent convolution in quantitative SPECT reconstruction. Physics in Medicine and Biology, 1997, 42, 433-439.	3.0	9
139	Benefits of angular expression to reconstruction algorithms for collimators with spatially varying focal lengths. IEEE Transactions on Medical Imaging, 1997, 16, 527-531.	8.9	9
140	In vivo MR imaging and spectroscopy using hyperpolarized ^{129}Xe. Magnetic Resonance in Medicine, 1996, 36, 183-191.	3.0	138
141	Compensation for attenuation, scatter, and detector response in SPECT reconstruction via iterative FBP methods. Medical Physics, 1993, 20, 1097-1106.	3.0	27
142	Reconstruction Of Object-specific Attenuation Map For Quantitative SPECT. , 0, , .		3
143	3D virtual colonoscopy. , 0, , .		81
144	3D reconstruction and visualisation of the inner surface of the colon from spiral CT data. , 0, , .		1

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145	A new model for tracing first-order Compton scatter in quantitative SPECT imaging. , 0, , .		1
146	Inclusion of a priori information in frequency space for quantitative SPECT imaging. , 0, , .		3
147	Interactive volume rendering for virtual colonoscopy. , 0, , .		0
148	An investigation on analytical methods for correction of distance-dependent resolution variation in 3D SPECT imaging. , 0, , .		2
149	The possibility of complete restoration of variable collimator response in SPECT imaging. , 0, , .		1
150	A theoretically based pre-reconstructing filter for spatio-temporal noise reduction in gated cardiac SPECT. , 0, , .		5
151	Electronic colon cleansing by colonic material tagging and image segmentation for polyp detection: detection model and method evaluation. , 0, , .		0
152	Ray-driven analytical fan-beam SPECT reconstruction with nonuniform attenuation. , 0, , .		7
153	Noise properties of low-dose CT projections and noise treatment by scale transformations. , 0, , .		19
154	A noise reduction method for non-stationary noise model of SPECT sinogram based on Kalman filter. , 0, , .		2
155	An EM framework for segmentation of tissue mixtures from medical images. , 0, , .		18
156	Compensation for nonstationary detector response in analytical varying focal-length fan-beam SPECT reconstruction. , 0, , .		2
157	A ray-driven approach to analytical SPECT reconstruction of non-uniform attenuation with variable focal-length fan-beam collimators. , 0, , .		1
158	Volumetric analysis of multiple sclerosis using multispectral MR images: method and validation. , 0, , .		0
159	Partial volume segmentation of medical images. , 0, , .		7
160	FBP algorithms for attenuated fan-beam projections. , 0, , .		0
161	Mixture-Based Bone Segmentation and Its Application in Computer Aided Diagnosis and Treatment Planning. , 0, , .		1
162	A study on truncated cone-beam sampling strategies for 3D mammography. , 0, , .		0

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163	A unifying framework for inhomogeneity correction and partial volume segmentation of brain MR images. , 0, , .		2
164	Inversion of the attenuated radon transform for non-parallel geometries. , 0, , .		1