Ivana Isgum

List of Publications by Year
in descending order

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164 papers	10,564 citations	34105 52 h-index	34986 98 g-index
168 all docs	168 docs citations	168 times ranked	12090 citing authors

#	Article	IF	Citations
1	AI-Based Quantification of Planned Radiation Therapy Dose to Cardiac Structures and Coronary Arteries in Patients With Breast Cancer. International Journal of Radiation Oncology Biology Physics, 2022, 112, 611-620.	0.8	9
2	Scan-based competing death risk model for re-evaluating lung cancer computed tomography screening eligibility. European Respiratory Journal, 2022, 59, 2101613.	6.7	5
3	AI-Based Radiation Dose Quantification for Estimation of Heart Disease Risk in Breast Cancer Survivors After Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2022, 112, 621-632.	0.8	9
4	Deep learning-based whole-heart segmentation in 4D contrast-enhanced cardiac CT. Computers in Biology and Medicine, 2022, 142, 105191.	7.0	8
5	Early detection of obstructive coronary artery disease in the asymptomatic high-risk population: objectives and study design of the EARLY-SYNERGY trial. American Heart Journal, 2022, 246, 166-177.	2.7	4
6	Untangling and segmenting the small intestine in 3D cine-MRI using deep learning. Medical Image Analysis, 2022, 78, 102386.	11.6	12
7	Generative adversarial network for coronary artery plaque synthesis in coronary CT angiography. , 2022, , .		0
8	Autoencoding low-resolution MRI for semantically smooth interpolation of anisotropic MRI. Medical Image Analysis, 2022, 78, 102393.	11.6	5
9	Radiography and Computed Tomography Detection of Intimal and Medial Calcifications in Leg Arteries in Comparison to Histology. Journal of Personalized Medicine, 2022, 12, 711.	2.5	5
10	Generative models for reproducible coronary calcium scoring. Journal of Medical Imaging, 2022, 9, .	1.5	3
11	Knowledge distillation with ensembles of convolutional neural networks for medical image segmentation. Journal of Medical Imaging, 2022, 9, .	1.5	9
12	Deep-Learning-Based Thrombus Localization and Segmentation in Patients with Posterior Circulation Stroke. Diagnostics, 2022, 12, 1400.	2.6	2
13	Automated Assessment of COVID-19 Reporting and Data System and Chest CT Severity Scores in Patients Suspected of Having COVID-19 Using Artificial Intelligence. Radiology, 2021, 298, E18-E28.	7.3	116
14	Routine Echocardiography and Artificial Intelligence Solutions. Frontiers in Cardiovascular Medicine, 2021, 8, 648877.	2.4	20
15	Combining pulmonary and cardiac computed tomography biomarkers for disease-specific risk modelling in lung cancer screening. European Respiratory Journal, 2021, 58, 2003386.	6.7	8
16	Artificial Intelligence in Cardiovascular Imaging for Risk Stratification in Coronary Artery Disease. Radiology: Cardiothoracic Imaging, 2021, 3, e200512.	2.5	39
17	Artificial intelligence in cardiovascular CT: Current status and future implications. Journal of Cardiovascular Computed Tomography, 2021, 15, 462-469.	1.3	20
18	The prognostic value of automated coronary calcium derived by a deep learning approach on non-ECG gated CT images from 82Rb-PET/CT myocardial perfusion imaging. International Journal of Cardiology, 2021, 329, 9-15.	1.7	9

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19	Position paper of the EACVI and EANM on artificial intelligence applications in multimodality cardiovascular imaging using SPECT/CT, PET/CT, and cardiac CT. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 1399-1413.	6.4	45
20	Deep Learningâ€“Quantified Calcium Scores for Automatic Cardiovascular Mortality Prediction at Lung Screening Low-Dose CT. Radiology: Cardiothoracic Imaging, 2021, 3, e190219.	2.5	7
21	Generative Adversarial Networks: A Primer for Radiologists. Radiographics, 2021, 41, 840-857.	3.3	28
22	Identification of Risk of Cardiovascular Disease by Automatic Quantification of Coronary Artery Calcifications on Radiotherapy Planning CT Scans in Patients With Breast Cancer. JAMA Oncology, 2021, 7, 1024.	7.1	35
23	High levels of osteoprotegerin are associated with coronary artery calcification in patients suspected of a chronic coronary syndrome. Scientific Reports, 2021, 11, 18946.	3.3	10
24	Coronary artery calcifications on breast cancer radiotherapy planning CT scans and cardiovascular risk: What do patients want to know?. International Journal of Cardiology Cardiovascular Risk and Prevention, 2021, 11, 200113.	1.1	0
25	Two-dimensional ultrasound measurements vs. magnetic resonance imaging-derived ventricular volume of preterm infants with germinal matrix intraventricular haemorrhage. Pediatric Radiology, 2020, 50, 234-241.	2.0	12
26	Deep learning: Generative adversarial networks and adversarial methods. , 2020, , 547-574.		6
27	The Association Between Marital Status, Coronary Computed Tomography Imaging Biomarkers, and Mortality in a Lung Cancer Screening Population. Journal of Thoracic Imaging, 2020, 35, 204-209.	1.5	7
28	Etidronate halts systemic arterial calcification in pseudoxanthoma elasticum. Atherosclerosis, 2020, 292, 37-41.	0.8	40
29	Automated calcium scores collected during myocardial perfusion imaging improve identification of obstructive coronary artery disease. IJC Heart and Vasculature, 2020, 26, 100434.	1.1	11
30	Deep Learning-Based Regression and Classification for Automatic Landmark Localization in Medical Images. IEEE Transactions on Medical Imaging, 2020, 39, 4011-4022.	8.9	70
31	Deep learning from dualâ€energy information for wholeâ€heart segmentation in dualâ€energy and singleâ€energy nonâ€contrastâ€enhanced cardiac CT. Medical Physics, 2020, 47, 5048-5060.	3.0	29
32	Automatic segmentation with detection of local segmentation failures in cardiac MRI. Scientific Reports, 2020, 10, 21769.	3.3	29
33	Artificial intelligence: improving the efficiency of cardiovascular imaging. Expert Review of Medical Devices, 2020, 17, 565-577.	2.8	20
34	Multifocal cardiovascular calcification in patients with established cardiovascular disease; prevalence, risk factors, and relation with recurrent cardiovascular disease. IJC Heart and Vasculature, 2020, 27, 100499.	1.1	5
35	Deep Learning for Automatic Calcium Scoring in CT: Validation Using Multiple Cardiac CT and Chest CT Protocols. Radiology, 2020, 295, 66-79.	7.3	140
36	Application and Translation of Artificial Intelligence to Cardiovascular Imaging in Nuclear Medicine and Noncontrast CT. Seminars in Nuclear Medicine, 2020, 50, 357-366.	4.6	23

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37	Automatic online quality control of synthetic CTs. , 2020, , .		4
38	Coronary artery calcium scoring: can we do better?. , 2020, , .		4
39	Deep Group-Wise Variational Diffeomorphic Image Registration. Lecture Notes in Computer Science, 2020, , 155-164.	1.3	2
40	State-of-the-Art Deep Learning in Cardiovascular Image Analysis. JACC: Cardiovascular Imaging, 2019, 12, 1549-1565.	5.3	238
41	Knowledgeâ€based and deep learningâ€based automated chest wall segmentation in magnetic resonance images of extremely dense breasts. Medical Physics, 2019, 46, 4405-4416.	3.0	6
42	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 61.	3.3	157
43	Diagnostic Performance of On-Site Coronary CT Angiographyâ€"derived Fractional Flow Reserve Based on Patient-specific Lumped Parameter Models. Radiology: Cardiothoracic Imaging, 2019, 1, e190036.	2.5	13
44	Cardiovascular Diseases. , 2019, , 167-185.		3
45	Sex Differences in Coronary Artery and Thoracic Aorta Calcification and Their Association With Cardiovascular Mortality in Heavy Smokers. JACC: Cardiovascular Imaging, 2019, 12, 1808-1817.	5.3	25
46	Convolutional Neural Network-Based Regression for Quantification of Brain Characteristics Using MRI. Advances in Intelligent Systems and Computing, 2019, , 577-586.	0.6	0
47	Application of speCtraL computed tomogrAphy to impRove specIficity of cardiac compuTed tomographY (CLARITY study): rationale and design. BMJ Open, 2019, 9, e025793.	1.9	5
48	Assessment of Brain Injury and Brain Volumes after Posthemorrhagic Ventricular Dilatation: A Nested Substudy of the Randomized Controlled ELVIS Trial. Journal of Pediatrics, 2019, 208, 191-197.e2.	1.8	39
49	Brain and CSF Volumes in Fetuses and Neonates with Antenatal Diagnosis of Critical Congenital Heart Disease: A Longitudinal MRI Study. American Journal of Neuroradiology, 2019, 40, 885-891.	2.4	32
50	Direct Automatic Coronary Calcium Scoring in Cardiac and Chest CT. IEEE Transactions on Medical Imaging, 2019, 38, 2127-2138.	8.9	82
51	Iterative fully convolutional neural networks for automatic vertebra segmentation and identification. Medical Image Analysis, 2019, 53, 142-155.	11.6	170
52	Bragatston study protocol: a multicentre cohort study on automated quantification of cardiovascular calcifications on radiotherapy planning CT scans for cardiovascular risk prediction in patients with breast cancer. BMJ Open, 2019, 9, e028752.	1.9	16
53	Machine Learning for Assessment of Coronary Artery Disease in Cardiac CT: A Survey. Frontiers in Cardiovascular Medicine, 2019, 6, 172.	2.4	41
54	A Recurrent CNN for Automatic Detection and Classification of Coronary Artery Plaque and Stenosis in Coronary CT Angiography. IEEE Transactions on Medical Imaging, 2019, 38, 1588-1598.	8.9	172

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55	Deep learning analysis of left ventricular myocardium in CT angiographic intermediate-degree coronary stenosis improves the diagnostic accuracy for identification of functionally significant stenosis. European Radiology, 2019, 29, 2350-2359.	4.5	73
56	Coronary artery centerline extraction in cardiac CT angiography using a CNN-based orientation classifier. Medical Image Analysis, 2019, 51, 46-60.	11.6	129
57	A deep learning framework for unsupervised affine and deformable image registration. Medical Image Analysis, 2019, 52, 128-143.	11.6	512
58	Adversarial Optimization for Joint Registration and Segmentation in Prostate CT Radiotherapy. Lecture Notes in Computer Science, 2019, , 366-374.	1.3	15
59	Direct prediction of cardiovascular mortality from low-dose chest CT using deep learning. , 2019, , .		7
60	Perioperative neonatal brain injury is associated with worse schoolâ€age neurodevelopment in children with critical congenital heart disease. Developmental Medicine and Child Neurology, 2018, 60, 1052-1058.	2.1	84
61	Automatic Calcium Scoring in Low-Dose Chest CT Using Deep Neural Networks With Dilated Convolutions. IEEE Transactions on Medical Imaging, 2018, 37, 615-625.	8.9	176
62	Mild cerebellar injury does not significantly affect cerebral white matter microstructural organization and neurodevelopmental outcome in a contemporary cohort of preterm infants. Pediatric Research, 2018, 83, 1004-1010.	2.3	7
63	Severe retinopathy of prematurity is associated with reduced cerebellar and brainstem volumes at term and neurodevelopmental deficits at 2 years. Pediatric Research, 2018, 83, 818-824.	2.3	22
64	Automatic determination of cardiovascular risk by CT attenuation correction maps in Rb-82 PET/CT. Journal of Nuclear Cardiology, 2018, 25, 2133-2142.	2.1	49
65	Evaluation of a deep learning approach for the segmentation of brain tissues and white matter hyperintensities of presumed vascular origin inÂMRI. NeuroImage: Clinical, 2018, 17, 251-262.	2.7	88
66	Effects of early nutrition and growth on brain volumes, white matter microstructure, and neurodevelopmental outcome in preterm newborns. Pediatric Research, 2018, 83, 102-110.	2.3	118
67	Deep learning analysis of the myocardium in coronary CT angiography for identification of patients with functionally significant coronary artery stenosis. Medical Image Analysis, 2018, 44, 72-85.	11.6	154
68	Changes in brain morphology and microstructure in relation to early brain activity in extremely preterm infants. Pediatric Research, 2018, 83, 834-842.	2.3	18
69	Coronary calcium scoring with partial volume correction in anthropomorphic thorax phantom and screening chest CT images. PLoS ONE, 2018, 13, e0209318.	2.5	23
70	Early human brain development: insights into macroscale connectome wiring. Pediatric Research, 2018, 84, 829-836.	2.3	13
71	Automatic quantification of calcifications in the coronary arteries and thoracic aorta on radiotherapy planning CT scans of Western and Asian breast cancer patients. Radiotherapy and Oncology, 2018, 127, 487-492.	0.6	28
72	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. IEEE Transactions on Medical Imaging, 2018, 37, 2514-2525.	8.9	926

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73	MR-Only Brain Radiation Therapy: Dosimetric Evaluation of Synthetic CTs Generated by a Dilated Convolutional Neural Network. International Journal of Radiation Oncology Biology Physics, 2018, 102, 801-812.	0.8	102
74	The amount of calcifications in pseudoxanthoma elasticum patients is underestimated in computed tomographic imaging; a post-mortem correlation of histological and computed tomographic findings in two cases. Insights Into Imaging, 2018, 9, 493-498.	3.4	13
75	Impact of automatically detected motion artifacts on coronary calcium scoring in chest computed tomography. Journal of Medical Imaging, 2018, 5, 1.	1.5	6
76	Iterative convolutional neural networks for automatic vertebra identification and segmentation in CT images. , 2018, , .		5
77	Automatic segmentation of thoracic aorta segments in low-dose chest CT. , 2018, , .		18
78	Dilated Convolutional Neural Networks for Cardiovascular MR Segmentation in Congenital Heart Disease. Lecture Notes in Computer Science, 2017, , 95-102.	1.3	36
79	ConvNet-Based Localization of Anatomical Structures in 3-D Medical Images. IEEE Transactions on Medical Imaging, 2017, 36, 1470-1481.	8.9	94
80	Computed tomographic findings in subjects who died from respiratory disease in the National Lung Screening Trial. European Respiratory Journal, 2017, 49, 1601814.	6.7	26
81	Generative Adversarial Networks for Noise Reduction in Low-Dose CT. IEEE Transactions on Medical Imaging, 2017, 36, 2536-2545.	8.9	738
82	Classification of coronary artery calcifications according to motion artifacts in chest CT using a convolutional neural network. Proceedings of SPIE, 2017, , .	0.8	3
83	Automatic quantification of ischemic injury on diffusion-weighted MRI of neonatal hypoxic ischemic encephalopathy. NeuroImage: Clinical, 2017, 14, 222-232.	2.7	14
84	Deep MR to CT Synthesis Using Unpaired Data. Lecture Notes in Computer Science, 2017, , 14-23.	1.3	320
85	Prediction of cognitive and motor outcome of preterm infants based on automatic quantitative descriptors from neonatal MR brain images. Scientific Reports, 2017, 7, 2163.	3.3	25
86	End-to-End Unsupervised Deformable Image Registration with a Convolutional Neural Network. Lecture Notes in Computer Science, 2017, , 204-212.	1.3	251
87	2D image classification for 3D anatomy localization: employing deep convolutional neural networks. Proceedings of SPIE, 2016, , .	0.8	39
88	An evaluation of automatic coronary artery calcium scoring methods with cardiac CT using the orCaScore framework. Medical Physics, 2016, 43, 2361-2373.	3.0	63
89	Patent Ductus Arteriosus and Brain Volume. Pediatrics, 2016, 137, .	2.1	61
90	Automatic Segmentation of MR Brain Images With a Convolutional Neural Network. IEEE Transactions on Medical Imaging, 2016, 35, 1252-1261.	8.9	676

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91	Cystatin C and Cardiovascular Disease. Journal of the American College of Cardiology, 2016, 68, 934-945.	2.8	109
92	Submillisievert coronary calcium quantification using model-based iterative reconstruction: A within-patient analysis. European Journal of Radiology, 2016, 85, 2152-2159.	2.6	26
93	Delayed cortical gray matter development in neonates with severe congenital heart disease. Pediatric Research, 2016, 80, 668-674.	2.3	48
94	Multiethnic Exome-Wide Association Study of Subclinical Atherosclerosis. Circulation: Cardiovascular Genetics, 2016, 9, 511-520.	5.1	54
95	Relation between clinical risk factors, early cortical changes, and neurodevelopmental outcome in preterm infants. NeuroImage, 2016, 142, 301-310.	4.2	58
96	Deep convolutional neural networks for automatic coronary calcium scoring in a screening study with low-dose chest CT. Proceedings of SPIE, 2016, , .	0.8	22
97	Automatic segmentation of the left ventricle in cardiac CT angiography using convolutional neural networks. , 2016, , .		32
98	Deep Learning for Multi-task Medical Image Segmentation in Multiple Modalities. Lecture Notes in Computer Science, 2016, , 478-486.	1.3	165
99	Automatic coronary artery calcium scoring in cardiac CT angiography using paired convolutional neural networks. Medical Image Analysis, 2016, 34, 123-136.	11.6	228
100	Automatic detection of cardiovascular risk in CT attenuation correction maps in Rb-82 PET/CTs. Proceedings of SPIE, 2016, , .	0.8	2
101	Genome-wide association study of coronary and aortic calcification in lung cancer screening CT. Proceedings of SPIE, 2016, , .	0.8	0
102	Brain Volumes at Term-Equivalent Age in Preterm Infants: Imaging Biomarkers for Neurodevelopmental Outcome through Early School Age. Journal of Pediatrics, 2016, 172, 88-95.	1.8	102
103	Predominance of Nonatherosclerotic Internal Elastic Lamina Calcification in the Intracranial Internal Carotid Artery. Stroke, 2016, 47, 221-223.	2.0	65
104	Effects of Posthemorrhagic Ventricular Dilatation in the Preterm InfantÂonÂBrain Volumes and White Matter Diffusion Variables atÂTerm-Equivalent Age. Journal of Pediatrics, 2016, 168, 41-49.e1.	1.8	51
105	Automatic Coronary Artery Calcium Scoring on Radiotherapy Planning CT Scans of Breast Cancer Patients: Reproducibility and Association with Traditional Cardiovascular Risk Factors. PLoS ONE, 2016, 11, e0167925.	2.5	35
106	Prognostic value of heart valve calcifications for cardiovascular events in a lung cancer screening population. International Journal of Cardiovascular Imaging, 2015, 31, 1243-1249.	1.5	15
107	Automatic machine learning based prediction of cardiovascular events in lung cancer screening data. Proceedings of SPIE, 2015, , .	0.8	3
108	Serum Lipid Levels, Body Mass Index, and Their Role in Coronary Artery Calcification. Circulation: Cardiovascular Genetics, 2015, 8, 327-333.	5.1	17

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109	Evaluation of an automatic brain segmentation method developed for neonates on adult MR brain images. Proceedings of SPIE, 2015, , .	0.8	6
110	Quantification of coronary artery calcium in nongated CT to predict cardiovascular events in male lung cancer screening participants: Results of the NELSON study. Journal of Cardiovascular Computed Tomography, 2015, 9, 50-57.	1.3	52
111	Osteoporosis markers on low-dose lung cancer screening chest computed tomography scans predict all-cause mortality. European Radiology, 2015, 25, 132-139.	4.5	49
112	Pulmonary function and CT biomarkers as risk factors for cardiovascular events in male lung cancer screening participants: the NELSON study. European Radiology, 2015, 25, 65-71.	4.5	9
113	Automatic segmentation of MR brain images of preterm infants using supervised classification. NeuroImage, 2015, 118, 628-641.	4.2	71
114	Cardiovascular disease prediction: do pulmonary disease-related chest CT features have added value?. European Radiology, 2015, 25, 1646-1654.	4.5	1
115	Automatic Coronary Calcium Scoring in Non-Contrast-Enhanced ECG-Triggered Cardiac CT With Ambiguity Detection. IEEE Transactions on Medical Imaging, 2015, 34, 1867-1878.	8.9	96
116	Evaluation of automatic neonatal brain segmentation algorithms: The NeoBrainS12 challenge. Medical Image Analysis, 2015, 20, 135-151.	11.6	85
117	Automatic Coronary Calcium Scoring in Cardiac CT Angiography Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2015, , 589-596.	1.3	35
118	Development of Cortical Morphology Evaluated with Longitudinal MR Brain Images of Preterm Infants. PLoS ONE, 2015, 10, e0131552.	2.5	60
119	Unmyelinated White Matter Loss in the Preterm Brain Is Associated with Early Increased Levels of End-Tidal Carbon Monoxide. PLoS ONE, 2014, 9, e89061.	2.5	5
120	Automated Coronary Artery Calcification Scoring in Non-Gated Chest CT: Agreement and Reliability. PLoS ONE, 2014, 9, e91239.	2.5	90
121	Association of Chronic Obstructive Pulmonary Disease and Smoking Status With Bone Density and Vertebral Fractures in Male Lung Cancer Screening Participants. Journal of Bone and Mineral Research, 2014, 29, 2224-2229.	2.8	36
122	An automatic machine learning system for coronary calcium scoring in clinical non-contrast enhanced, ECG-triggered cardiac CT. Proceedings of SPIE, 2014, , .	0.8	7
123	Discriminating dominant computed tomography phenotypes in smokers without or with mild COPD. Respiratory Medicine, 2014, 108, 136-143.	2.9	26
124	Cardiac valve calcifications on low-dose unenhanced ungated chest computed tomography: inter-observer and inter-examination reliability, agreement and variability. European Radiology, 2014, 24, 1557-1564.	4.5	18
125	Feasibility and Safety of Erythropoietin for Neuroprotection after Perinatal Arterial Ischemic Stroke. Journal of Pediatrics, 2014, 164, 481-486.e2.	1.8	67
126	Computed Tomography of Aortic Wall Calcifications in Aortic Dissection Patients. PLoS ONE, 2014, 9, e102036.	2.5	22

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127	Diagnosis of chronic obstructive pulmonary disease in lung cancer screening Computed Tomography scans: independent contribution of emphysema, air trapping and bronchial wall thickening. Respiratory Research, 2013, 14, 59.	3.6	63
128	Calcium at the carotid siphon as an indicator of internal carotid artery stenosis. European Radiology, 2013, 23, 1478-1486.	4.5	7
129	Genome-wide association study of coronary and aortic calcification implicates risk loci for coronary artery disease and myocardial infarction. Atherosclerosis, 2013, 228, 400-405.	0.8	100
130	Lung Cancer Screening CT-Based Prediction of CardiovascularÂEvents. JACC: Cardiovascular Imaging, 2013, 6, 899-907.	5.3	89
131	Implicit surface registration with surface-oriented anisotropic deformation field smoothing. , 2013, , .		1
132	Relationship between myocardial bridges and reduced coronary atherosclerosis in patients with angina pectoris. International Journal of Cardiology, 2013, 167, 883-888.	1.7	27
133	Hydrocortisone Treatment for Bronchopulmonary Dysplasia and Brain Volumes in Preterm Infants. Journal of Pediatrics, 2013, 163, 666-671.e1.	1.8	56
134	Assessment of quantitative cortical biomarkers in the developing brain of preterm infants. Proceedings of SPIE, 2013, , .	0.8	2
135	Automatic neonatal brain tissue segmentation with MRI. Proceedings of SPIE, 2013, , .	0.8	14
136	Automatic segmentation of the preterm neonatal brain with MRI using supervised classification. Proceedings of SPIE, 2013, , .	0.8	6
137	Combined pixel classification and atlas-based segmentation of the ventricular system in brain CT Images. Proceedings of SPIE, 2013, , .	0.8	6
138	Impact of Cardiovascular Calcifications on the Detrimental Effect of Continued Smoking on Cardiovascular Risk in Male Lung Cancer Screening Participants. PLoS ONE, 2013, 8, e66484.	2.5	8
139	Automatic Segmentation of Eight Tissue Classes in Neonatal Brain MRI. PLoS ONE, 2013, 8, e81895.	2.5	59
140	Brain tissue volumes in preterm infants: prematurity, perinatal risk factors and neurodevelopmental outcome: A systematic review. Journal of Maternal-Fetal and Neonatal Medicine, 2012, 25, 89-100.	1.5	98
141	Coronary Artery Calcium Can Predict All-Cause Mortality and Cardiovascular Events on Low-Dose CT Screening for Lung Cancer. American Journal of Roentgenology, 2012, 198, 505-511.	2.2	146
142	Automatic Coronary Calcium Scoring in Low-Dose Chest Computed Tomography. IEEE Transactions on Medical Imaging, 2012, 31, 2322-2334.	8.9	112
143	Variation in quantitative CT air trapping in heavy smokers on repeat CT examinations. European Radiology, 2012, 22, 2710-2717.	4.5	13
144	Early Identification of Small Airways Disease on Lung Cancer Screening CT: Comparison of Current Air Trapping Measures. Lung, 2012, 190, 629-633.	3.3	56

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145	Contextual computer-aided detection: Improving bright lesion detection in retinal images and coronary calcification identification in CT scans. Medical Image Analysis, 2012, 16, 50-62.	11.6	41
146	Elastic Demons: Characterizing Cortical Development in Neonates Using an Implicit Surface Registration. Lecture Notes in Computer Science, 2012, , 38-49.	1.3	1
147	Calcium scoring with prospectively ECG-triggered CT: Using overlapping datasets generated with MPR decreases inter-scan variability. European Journal of Radiology, 2011, 80, 83-88.	2.6	13
148	Automatic Segmentation of Perinatal Arterial Ischemic Stroke Volume. Pediatric Research, 2011, 70, 155-155.	2.3	1
149	Indefinite Gray-White Matter Border on MRI at Term Equivalent Age in Preterm Infants with White Matter Injury. Pediatric Research, 2011, 70, 156-156.	2.3	0
150	Identification of Chronic Obstructive Pulmonary Disease in Lung Cancer Screening Computed Tomographic Scans. JAMA - Journal of the American Medical Association, 2011, 306, 1775-81.	7.4	123
151	CT-quantified emphysema in male heavy smokers: association with lung function decline. Thorax, 2011, 66, 782-787.	5.6	142
152	Automatic coronary calcium scoring in low-dose non-ECG-synchronized thoracic CT scans. Proceedings of SPIE, 2010, , .	0.8	1
153	Adaptive local multi-atlas segmentation: Application to the heart and the caudate nucleus. Medical Image Analysis, 2010, 14, 39-49.	11.6	139
154	Automated aortic calcium scoring on lowâ€dose chest computed tomography. Medical Physics, 2010, 37, 714-723.	3.0	35
155	Coronary Artery Calcification Scoring in Low-Dose Ungated CT Screening for Lung Cancer: Interscan Agreement. American Journal of Roentgenology, 2010, 194, 1244-1249.	2.2	51
156	Comparing coronary artery calcium and thoracic aorta calcium for prediction of all-cause mortality and cardiovascular events on low-dose non-gated computed tomography in a high-risk population of heavy smokers. Atherosclerosis, 2010, 209, 455-462.	0.8	117
157	Multi-Atlas-Based Segmentation With Local Decision Fusionâ€”Application to Cardiac and Aortic Segmentation in CT Scans. IEEE Transactions on Medical Imaging, 2009, 28, 1000-1010.	8.9	330
158	Adaptive local multi-atlas segmentation: application to heart segmentation in chest CT scans. , 2008, , .		14
159	Coronary Calcification: Effect of Small Variation of Scan Starting Position on Agatston, Volume, and Mass Scores. Radiology, 2008, 246, 90-98.	7.3	55
160	Detection of coronary calcifications from computed tomography scans for automated risk assessment of coronary artery disease. Medical Physics, 2007, 34, 1450-1461.	3.0	81
161	A pattern recognition approach to automated coronary calcium scoring. , 2004, , .		3
162	Automatic detection of calcifications in the aorta from CT scans of the abdomen1. Academic Radiology, 2004, 11, 247-257.	2.5	41

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163	Automatic detection of calcifications in the aorta from abdominal CT scans. International Congress Series, 2003, 1256, 1037-1042.	0.2	3
164	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. , 0, .		1