

# Bram van Ginneken

## List of Publications by Year in descending order

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418  
papers

44,055  
citations

4146

87  
h-index

2571

195  
g-index

428  
all docs

428  
docs citations

428  
times ranked

35302  
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey on deep learning in medical image analysis. <i>Medical Image Analysis</i> , 2017, 42, 60-88.	11.6	7,976
2	Ridge-Based Vessel Segmentation in Color Images of the Retina. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 501-509.	8.9	2,914
3	Diagnostic Assessment of Deep Learning Algorithms for Detection of Lymph Node Metastases in Women With Breast Cancer. <i>JAMA - Journal of the American Medical Association</i> , 2017, 318, 2199.	7.4	2,003
4	Guest Editorial Deep Learning in Medical Imaging: Overview and Future Promise of an Exciting New Technique. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1153-1159.	8.9	1,261
5	Reflectance and texture of real-world surfaces. <i>ACM Transactions on Graphics</i> , 1999, 18, 1-34.	7.2	1,065
6	Pulmonary Nodule Detection in CT Images: False Positive Reduction Using Multi-View Convolutional Networks. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1160-1169.	8.9	926
7	Comparison and Evaluation of Methods for Liver Segmentation From CT Datasets. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 1251-1265.	8.9	848
8	Deep learning as a tool for increased accuracy and efficiency of histopathological diagnosis. <i>Scientific Reports</i> , 2016, 6, 26286.	3.3	764
9	Large scale deep learning for computer aided detection of mammographic lesions. <i>Medical Image Analysis</i> , 2017, 35, 303-312.	11.6	728
10	Validation, comparison, and combination of algorithms for automatic detection of pulmonary nodules in computed tomography images: The LUNA16 challenge. <i>Medical Image Analysis</i> , 2017, 42, 1-13.	11.6	710
11	CO-RADS: A Categorical CT Assessment Scheme for Patients Suspected of Having COVID-19â€”Definition and Evaluation. <i>Radiology</i> , 2020, 296, E97-E104.	7.3	693
12	Comparative study of retinal vessel segmentation methods on a new publicly available database. , 2004, 5370, 648.		496
13	Evaluation of prostate segmentation algorithms for MRI: The PROMISE12 challenge. <i>Medical Image Analysis</i> , 2014, 18, 359-373.	11.6	469
14	Computer analysis of computed tomography scans of the lung: a survey. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 385-405.	8.9	460
15	Active shape model segmentation with optimal features. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 924-933.	8.9	444
16	Segmentation of anatomical structures in chest radiographs using supervised methods: a comparative study on a public database. <i>Medical Image Analysis</i> , 2006, 10, 19-40.	11.6	433
17	Automatic detection of red lesions in digital color fundus photographs. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 584-592.	8.9	422
18	Retinopathy Online Challenge: Automatic Detection of Microaneurysms in Digital Color Fundus Photographs. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 185-195.	8.9	414

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19	Computer-aided diagnosis in chest radiography: a survey. IEEE Transactions on Medical Imaging, 2001, 20, 1228-1241.	8.9	411
20	Automated deep-learning system for Gleason grading of prostate cancer using biopsies: a diagnostic study. Lancet Oncology, The, 2020, 21, 233-241.	10.7	407
21	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920.	8.9	363
22	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. Proceedings of the IEEE, 2021, 109, 820-838.	21.3	339
23	Fast Convolutional Neural Network Training Using Selective Data Sampling: Application to Hemorrhage Detection in Color Fundus Images. IEEE Transactions on Medical Imaging, 2016, 35, 1273-1284.	8.9	335
24	Multi-Atlas-Based Segmentation With Local Decision Fusion Application to Cardiac and Aortic Segmentation in CT Scans. IEEE Transactions on Medical Imaging, 2009, 28, 1000-1010.	8.9	330
25	Automated Detection and Differentiation of Drusen, Exudates, and Cotton-Wool Spots in Digital Color Fundus Photographs for Diabetic Retinopathy Diagnosis. , 2007, 48, 2260.		328
26	A large-scale evaluation of automatic pulmonary nodule detection in chest CT using local image features and k-nearest-neighbour classification. Medical Image Analysis, 2009, 13, 757-770.	11.6	270
27	From Detection of Individual Metastases to Classification of Lymph Node Status at the Patient Level: The CAMELYON17 Challenge. IEEE Transactions on Medical Imaging, 2019, 38, 550-560.	8.9	269
28	Genetic landscape of chronic obstructive pulmonary disease identifies heterogeneous cell-type and phenotype associations. Nature Genetics, 2019, 51, 494-505.	21.4	257
29	The Medical Segmentation Decathlon. Nature Communications, 2022, 13, .	12.8	252
30	Comparing and combining algorithms for computer-aided detection of pulmonary nodules in computed tomography scans: The ANODE09 study. Medical Image Analysis, 2010, 14, 707-722.	11.6	245
31	Evaluation of a System for Automatic Detection of Diabetic Retinopathy From Color Fundus Photographs in a Large Population of Patients With Diabetes. Diabetes Care, 2008, 31, 193-198.	8.6	243
32	Automatic classification of pulmonary peri-fissural nodules in computed tomography using an ensemble of 2D views and a convolutional neural network out-of-the-box. Medical Image Analysis, 2015, 26, 195-202.	11.6	236
33	Computer-aided Diagnosis: How to Move from the Laboratory to the Clinic. Radiology, 2011, 261, 719-732.	7.3	230
34	Towards automatic pulmonary nodule management in lung cancer screening with deep learning. Scientific Reports, 2017, 7, 46479.	3.3	230
35	Automatic detection of subsolid pulmonary nodules in thoracic computed tomography images. Medical Image Analysis, 2014, 18, 374-384.	11.6	214
36	GANs for medical image analysis. Artificial Intelligence in Medicine, 2020, 109, 101938.	6.5	211

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37	Toward automated segmentation of the pathological lung in CT. IEEE Transactions on Medical Imaging, 2005, 24, 1025-1038.	8.9	205
38	Why rankings of biomedical image analysis competitions should be interpreted with care. Nature Communications, 2018, 9, 5217.	12.8	198
39	Deep learning for chest X-ray analysis: A survey. Medical Image Analysis, 2021, 72, 102125.	11.6	196
40	Automatic detection of abnormalities in chest radiographs using local texture analysis. IEEE Transactions on Medical Imaging, 2002, 21, 139-149.	8.9	193
41	Segmentation of the Optic Disc, Macula and Vascular Arch in Fundus Photographs. IEEE Transactions on Medical Imaging, 2007, 26, 116-127.	8.9	192
42	Automatic lung segmentation from thoracic computed tomography scans using a hybrid approach with error detection. Medical Physics, 2009, 36, 2934-2947.	3.0	191
43	Fast detection of the optic disc and fovea in color fundus photographs. Medical Image Analysis, 2009, 13, 859-870.	11.6	188
44	Artificial intelligence in radiology: 100 commercially available products and their scientific evidence. European Radiology, 2021, 31, 3797-3804.	4.5	178
45	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
46	Extraction of Airways From CT (EXACT'09). IEEE Transactions on Medical Imaging, 2012, 31, 2093-2107.	8.9	173
47	Location Sensitive Deep Convolutional Neural Networks for Segmentation of White Matter Hyperintensities. Scientific Reports, 2017, 7, 5110.	3.3	171
48	Iterative fully convolutional neural networks for automatic vertebra segmentation and identification. Medical Image Analysis, 2019, 53, 142-155.	11.6	170
49	COVID-19 on Chest Radiographs: A Multireader Evaluation of an Artificial Intelligence System. Radiology, 2020, 296, E166-E172.	7.3	167
50	Transfer Learning for Domain Adaptation in MRI: Application in Brain Lesion Segmentation. Lecture Notes in Computer Science, 2017, , 516-524.	1.3	167
51	Diffuse and Specular Reflectance from Rough Surfaces. Applied Optics, 1998, 37, 130.	2.1	159
52	Automatic liver tumor segmentation in CT with fully convolutional neural networks and object-based postprocessing. Scientific Reports, 2018, 8, 15497.	3.3	155
53	Automated Measurement of the Arteriolar-to-Venular Width Ratio in Digital Color Fundus Photographs. IEEE Transactions on Medical Imaging, 2011, 30, 1941-1950.	8.9	153
54	Pulmonary Perifissural Nodules on CT Scans: Rapid Growth Is Not a Predictor of Malignancy. Radiology, 2012, 265, 611-616.	7.3	153

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55	Off-the-shelf convolutional neural network features for pulmonary nodule detection in computed tomography scans. , 2015, , .		150
56	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
57	Observer Variability for Classification of Pulmonary Nodules on Low-Dose CT Images and Its Effect on Nodule Management. Radiology, 2015, 277, 863-871.	7.3	145
58	Using deep convolutional neural networks to identify and classify tumor-associated stroma in diagnostic breast biopsies. Modern Pathology, 2018, 31, 1502-1512.	5.5	145
59	A comparison of six software packages for evaluation of solid lung nodules using semi-automated volumetry: What is the minimum increase in size to detect growth in repeated CT examinations. European Radiology, 2009, 19, 800-808.	4.5	144
60	CT-quantified emphysema in male heavy smokers: association with lung function decline. Thorax, 2011, 66, 782-787.	5.6	142
61	Adaptive local multi-atlas segmentation: Application to the heart and the caudate nucleus. Medical Image Analysis, 2010, 14, 39-49.	11.6	139
62	A computer-aided diagnosis system for detection of lung nodules in chest radiographs with an evaluation on a public database. Medical Image Analysis, 2006, 10, 247-258.	11.6	134
63	Fifty years of computer analysis in chest imaging: rule-based, machine learning, deep learning. Radiological Physics and Technology, 2017, 10, 23-32.	1.9	133
64	Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: the VESSEL12 study. Medical Image Analysis, 2014, 18, 1217-1232.	11.6	131
65	Image structure clustering for image quality verification of color retina images in diabetic retinopathy screening. Medical Image Analysis, 2006, 10, 888-898.	11.6	128
66	Context-aware stacked convolutional neural networks for classification of breast carcinomas in whole-slide histopathology images. Journal of Medical Imaging, 2017, 4, 1.	1.5	126
67	Deep learning approach for the detection and quantification of intraretinal cystoid fluid in multivendor optical coherence tomography. Biomedical Optics Express, 2018, 9, 1545.	2.9	124
68	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
69	Computer-aided diagnosis in high resolution CT of the lungs. Medical Physics, 2003, 30, 3081-3090.	3.0	122
70	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
71	Automated measurement of fetal head circumference using 2D ultrasound images. PLoS ONE, 2018, 13, e0200412.	2.5	117
72	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

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73	Automatic Coronary Calcium Scoring in Low-Dose Chest Computed Tomography. IEEE Transactions on Medical Imaging, 2012, 31, 2322-2334.	8.9	112
74	Use of Volumetry for Lung Nodule Management: Theory and Practice. Radiology, 2017, 284, 630-644.	7.3	111
75	Reflectance and texture of real-world surfaces. , 0, , .		110
76	Automated segmentation of pulmonary structures in thoracic computed tomography scans: a review. Physics in Medicine and Biology, 2013, 58, R187-R220.	3.0	110
77	Automatic detection of large pulmonary solid nodules in thoracic CT images. Medical Physics, 2015, 42, 5642-5653.	3.0	109
78	Quantitative Computed Tomography in COPD: Possibilities and Limitations. Lung, 2012, 190, 133-145.	3.3	107
79	Epithelium segmentation using deep learning in H&E-stained prostate specimens with immunohistochemistry as reference standard. Scientific Reports, 2019, 9, 864.	3.3	107
80	Robust total retina thickness segmentation in optical coherence tomography images using convolutional neural networks. Biomedical Optics Express, 2017, 8, 3292.	2.9	106
81	Interactive segmentation of abdominal aortic aneurysms in CTA images. Medical Image Analysis, 2004, 8, 127-138.	11.6	105
82	Information Fusion for Diabetic Retinopathy CAD in Digital Color Fundus Photographs. IEEE Transactions on Medical Imaging, 2009, 28, 775-785.	8.9	105
83	The importance of stain normalization in colorectal tissue classification with convolutional networks. , 2017, , .		105
84	On Combining Computer-Aided Detection Systems. IEEE Transactions on Medical Imaging, 2011, 30, 215-223.	8.9	103
85	Evaluation of a Computer-Aided Diagnosis System for Diabetic Retinopathy Screening on Public Data. , 2011, 52, 4866.		101
86	An automated tuberculosis screening strategy combining X-ray-based computer-aided detection and clinical information. Scientific Reports, 2016, 6, 25265.	3.3	100
87	Deep multi-scale location-aware 3D convolutional neural networks for automated detection of lacunes of presumed vascular origin. NeuroImage: Clinical, 2017, 14, 391-399.	2.7	99
88	Semi-automatic construction of reference standards for evaluation of image registration. Medical Image Analysis, 2011, 15, 71-84.	11.6	98
89	Towards a close computed tomography monitoring approach for screen detected subsolid pulmonary nodules?. European Respiratory Journal, 2015, 45, 765-773.	6.7	98
90	Automatic segmentation of lung fields in chest radiographs. Medical Physics, 2000, 27, 2445-2455.	3.0	97

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91	Adapting Active Shape Models for 3D Segmentation of Tubular Structures in Medical Images. Lecture Notes in Computer Science, 2003, 18, 136-147.	1.3	97
92	Timing-Invariant Imaging of Collateral Vessels in Acute Ischemic Stroke. Stroke, 2013, 44, 2194-2199.	2.0	93
93	Automated Staging of Age-Related Macular Degeneration Using Optical Coherence Tomography. , 2017, 58, 2318.		93
94	Reduced Bone Density and Vertebral Fractures in Smokers. Men and COPD Patients at Increased Risk. Annals of the American Thoracic Society, 2015, 12, 648-656.	3.2	92
95	A Novel Multiple-Instance Learning-Based Approach to Computer-Aided Detection of Tuberculosis on Chest X-Rays. IEEE Transactions on Medical Imaging, 2015, 34, 179-192.	8.9	92
96	Computer-aided detection of pulmonary nodules: a comparative study using the public LIDC/IDRI database. European Radiology, 2016, 26, 2139-2147.	4.5	87
97	Computer aided detection of tuberculosis on chest radiographs: An evaluation of the CAD4TB v6 system. Scientific Reports, 2020, 10, 5492.	3.3	85
98	Automatic Segmentation of the Pulmonary Lobes From Chest CT Scans Based on Fissures, Vessels, and Bronchi. IEEE Transactions on Medical Imaging, 2013, 32, 210-222.	8.9	84
99	Discriminating solitary cysts from soft tissue lesions in mammography using a pretrained deep convolutional neural network. Medical Physics, 2017, 44, 1017-1027.	3.0	84
100	Automatic Segmentation of Pulmonary Lobes Robust Against Incomplete Fissures. IEEE Transactions on Medical Imaging, 2010, 29, 1286-1296.	8.9	83
101	ESR/ERS statement paper on lung cancer screening. European Radiology, 2020, 30, 3277-3294.	4.5	83
102	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
103	Noise Reduction in Computed Tomography Scans Using 3-D Anisotropic Hybrid Diffusion With Continuous Switch. IEEE Transactions on Medical Imaging, 2009, 28, 1585-1594.	8.9	81
104	Relational Modeling for Robust and Efficient Pulmonary Lobe Segmentation in CT Scans. IEEE Transactions on Medical Imaging, 2020, 39, 2664-2675.	8.9	81
105	Computer-aided diagnosis in chest radiography: Beyond nodules. European Journal of Radiology, 2009, 72, 226-230.	2.6	80
106	Improving airway segmentation in computed tomography using leak detection with convolutional networks. Medical Image Analysis, 2017, 36, 52-60.	11.6	78
107	TIPS bilateral noise reduction in 4D CT perfusion scans produces high-quality cerebral blood flow maps. Physics in Medicine and Biology, 2011, 56, 3857-3872.	3.0	77
108	Diagnostic Accuracy of Computer-Aided Detection of Pulmonary Tuberculosis in Chest Radiographs: A Validation Study from Sub-Saharan Africa. PLoS ONE, 2014, 9, e106381.	2.5	77



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109	Segmentation of the posterior ribs in chest radiographs using iterated contextual pixel classification. IEEE Transactions on Medical Imaging, 2006, 25, 602-611.	8.9	76
110	The Sensitivity and Specificity of Using a Computer Aided Diagnosis Program for Automatically Scoring Chest X-Rays of Presumptive TB Patients Compared with Xpert MTB/RIF in Lusaka Zambia. PLoS ONE, 2014, 9, e93757.	2.5	76
111	Automatic Segmentation of Pulmonary Segments From Volumetric Chest CT Scans. IEEE Transactions on Medical Imaging, 2009, 28, 621-630.	8.9	75
112	Local noise weighted filtering for emphysema scoring of low-dose CT images. IEEE Transactions on Medical Imaging, 2006, 25, 451-463.	8.9	71
113	Detection of tuberculosis using digital chest radiography: automated reading vs. interpretation by clinical officers. International Journal of Tuberculosis and Lung Disease, 2013, 17, 1613-1620.	1.2	71
114	Computed tomography-quantified emphysema distribution is associated with lung function decline. European Respiratory Journal, 2012, 40, 844-850.	6.7	70
115	Predictive Accuracy of the PanCan Lung Cancer Risk Prediction Model -External Validation based on CT from the Danish Lung Cancer Screening Trial. European Radiology, 2015, 25, 3093-3099.	4.5	70
116	Evaluation of a deep learning system for the joint automated detection of diabetic retinopathy and age-related macular degeneration. Acta Ophthalmologica, 2020, 98, 368-377.	1.1	68
117	Computer-aided Detection of Lung Cancer on Chest Radiographs: Effect on Observer Performance. Radiology, 2010, 257, 532-540.	7.3	66
118	Supervised Enhancement Filters: Application to Fissure Detection in Chest CT Scans. IEEE Transactions on Medical Imaging, 2008, 27, 1-10.	8.9	65
119	Deep Learning for Malignancy Risk Estimation of Pulmonary Nodules Detected at Low-Dose Screening CT. Radiology, 2021, 300, 438-447.	7.3	65
120	Timing-Invariant Reconstruction for Deriving High-Quality CT Angiographic Data from Cerebral CT Perfusion Data. Radiology, 2012, 263, 216-225.	7.3	64
121	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
122	Computer-aided Detection Improves Detection of Pulmonary Nodules in Chest Radiographs beyond the Support by Bone-suppressed Images. Radiology, 2014, 272, 252-261.	7.3	63
123	Automatic Detection of Tuberculosis in Chest Radiographs Using a Combination of Textural, Focal, and Shape Abnormality Analysis. IEEE Transactions on Medical Imaging, 2015, 34, 2429-2442.	8.9	62
124	Robust semi-automatic segmentation of pulmonary subsolid nodules in chest computed tomography scans. Physics in Medicine and Biology, 2015, 60, 1307-1323.	3.0	61
125	Monitoring of Smoking-induced Emphysema with CT in a Lung Cancer Screening Setting: Detection of Real Increase in Extent of Emphysema. Radiology, 2007, 244, 890-897.	7.3	60
126	Automated Fetal Head Detection and Circumference Estimation from Free-Hand Ultrasound Sweeps Using Deep Learning in Resource-Limited Countries. Ultrasound in Medicine and Biology, 2019, 45, 773-785.	1.5	59



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127	BIAS: Transparent reporting of biomedical image analysis challenges. <i>Medical Image Analysis</i> , 2020, 66, 101796.	11.6	59
128	How does artificial intelligence in radiology improve efficiency and health outcomes?. <i>Pediatric Radiology</i> , 2022, 52, 2087-2093.	2.0	59
129	Detection and quantification of the solid component in pulmonary subsolid nodules by semiautomatic segmentation. <i>European Radiology</i> , 2015, 25, 488-496.	4.5	58
130	Evaluation of a System for Automatic Detection of Diabetic Retinopathy From Color Fundus Photographs in a Large Population of Patients With Diabetes. <i>Diabetes Care</i> , 2008, 31, e64-e64.	8.6	57
131	ESR/ERS statement paper on lung cancer screening. <i>European Respiratory Journal</i> , 2020, 55, 1900506.	6.7	57
132	Early Identification of Small Airways Disease on Lung Cancer Screening CT: Comparison of Current Air Trapping Measures. <i>Lung</i> , 2012, 190, 629-633.	3.3	56
133	The relationship between lung function impairment and quantitative computed tomography in chronic obstructive pulmonary disease. <i>European Radiology</i> , 2012, 22, 120-128.	4.5	56
134	Disease Progression Modeling in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 294-302.	5.6	56
135	Texture histograms as a function of irradiation and viewing direction. <i>International Journal of Computer Vision</i> , 1999, 31, 169-184.	15.6	55
136	Automated classification of hyperlucency, fibrosis, ground glass, solid, and focal lesions in high-resolution CT of the lung. <i>Medical Physics</i> , 2006, 33, 2610-2620.	3.0	54
137	Automated chest-radiography as a triage for Xpert testing in resource-constrained settings: a prospective study of diagnostic accuracy and costs. <i>Scientific Reports</i> , 2015, 5, 12215.	3.3	54
138	Automatic rib segmentation and labeling in computed tomography scans using a general framework for detection, recognition and segmentation of objects in volumetric data. <i>Medical Image Analysis</i> , 2007, 11, 35-46.	11.6	52
139	Normalizing computed tomography data reconstructed with different filter kernels: effect on emphysema quantification. <i>European Radiology</i> , 2016, 26, 478-486.	4.5	52
140	iW-Net: an automatic and minimalistic interactive lung nodule segmentation deep network. <i>Scientific Reports</i> , 2019, 9, 11591.	3.3	52
141	Coronary Artery Calcification Scoring in Low-Dose Ungated CT Screening for Lung Cancer: Interscan Agreement. <i>American Journal of Roentgenology</i> , 2010, 194, 1244-1249.	2.2	51
142	Normal Range of Emphysema and Air Trapping on CT in Young Men. <i>American Journal of Roentgenology</i> , 2012, 199, 336-340.	2.2	51
143	Long-Term Active Surveillance of Screening Detected Subsolid Nodules is a Safe Strategy to Reduce Overtreatment. <i>Journal of Thoracic Oncology</i> , 2018, 13, 1454-1463.	1.1	51
144	Filter learning: Application to suppression of bony structures from chest radiographs. <i>Medical Image Analysis</i> , 2006, 10, 826-840.	11.6	50

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145	A method for the automatic quantification of the completeness of pulmonary fissures: evaluation in a database of subjects with severe emphysema. <i>European Radiology</i> , 2012, 22, 302-309.	4.5	50
146	Airway wall thickness associated with forced expiratory volume in 1 second decline and development of airflow limitation. <i>European Respiratory Journal</i> , 2015, 45, 644-651.	6.7	50
147	Image Level Training and Prediction: Intracranial Hemorrhage Identification in 3D Non-Contrast CT. <i>IEEE Access</i> , 2019, 7, 92355-92364.	4.2	48
148	Computer-aided diagnosis for World Health Organization-defined chest radiograph primary-endpoint pneumonia in children. <i>Pediatric Radiology</i> , 2020, 50, 482-491.	2.0	48
149	Airway wall thickening on CT: Relation to smoking status and severity of COPD. <i>Respiratory Medicine</i> , 2019, 146, 36-41.	2.9	47
150	Vessel segmentation in 3D spectral OCT scans of the retina. , 2008, , .		46
151	Automatic classification of retinal vessels into arteries and veins. <i>Proceedings of SPIE</i> , 2009, , .	0.8	46
152	Lung-RADS Category 4X: Does It Improve Prediction of Malignancy in Subsolid Nodules?. <i>Radiology</i> , 2017, 284, 264-271.	7.3	46
153	Observer variability for Lung-RADS categorisation of lung cancer screening CTs: impact on patient management. <i>European Radiology</i> , 2019, 29, 924-931.	4.5	46
154	Fusion of Local and Global Detection Systems to Detect Tuberculosis in Chest Radiographs. <i>Lecture Notes in Computer Science</i> , 2010, 13, 650-657.	1.3	46
155	Bag-of-Frequencies: A Descriptor of Pulmonary Nodules in Computed Tomography Images. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 962-973.	8.9	45
156	On Combining Multiple-Instance Learning and Active Learning for Computer-Aided Detection of Tuberculosis. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1013-1024.	8.9	45
157	Evaluation of the diagnostic accuracy of Computer-Aided Detection of tuberculosis on Chest radiography among private sector patients in Pakistan. <i>Scientific Reports</i> , 2018, 8, 12339.	3.3	45
158	Machine Learning Characterization of COPD Subtypes. <i>Chest</i> , 2020, 157, 1147-1157.	0.8	44
159	Toward automatic regional analysis of pulmonary function using inspiration and expiration thoracic CT. <i>Medical Physics</i> , 2012, 39, 1650-1662.	3.0	43
160	Subphenotypes of Mild-to-Moderate COPD by Factor and Cluster Analysis of Pulmonary Function, CT Imaging and Breathomics in a Population-Based Survey. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2013, 10, 277-285.	1.6	43
161	Robust Segmentation and Anatomical Labeling of the Airway Tree from Thoracic CT Scans. <i>Lecture Notes in Computer Science</i> , 2008, 11, 219-226.	1.3	43
162	Supervised quality assessment of medical image registration: Application to intra-patient CT lung registration. <i>Medical Image Analysis</i> , 2012, 16, 1521-1531.	11.6	42

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163	Solid, Part-Solid, or Non-Solid?. Investigative Radiology, 2015, 50, 168-173.	6.2	42
164	Software performance in segmenting ground-glass and solid components of subsolid nodules in pulmonary adenocarcinomas. European Radiology, 2016, 26, 4465-4474.	4.5	42
165	Malignancy risk estimation of screen-detected nodules at baseline CT: comparison of the PanCan model, Lung-RADS and NCCN guidelines. European Radiology, 2017, 27, 4019-4029.	4.5	42
166	Automatic detection of calcifications in the aorta from CT scans of the abdomen1. Academic Radiology, 2004, 11, 247-257.	2.5	41
167	Screening for Lung Cancer with Digital Chest Radiography: Sensitivity and Number of Secondary Work-up CT Examinations. Radiology, 2010, 255, 629-637.	7.3	41
168	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
169	Non-uniform patch sampling with deep convolutional neural networks for white matter hyperintensity segmentation. , 2016, , .		41
170	A Deep Learning Model for Segmentation of Geographic Atrophy to Study Its Long-Term Natural History. Ophthalmology, 2020, 127, 1086-1096.	5.2	41
171	Clavicle segmentation in chest radiographs. Medical Image Analysis, 2012, 16, 1490-1502.	11.6	40
172	Automatic Drusen Quantification and Risk Assessment of Age-Related Macular Degeneration on Color Fundus Images. , 2013, 54, 3019.		40
173	Classification of CT Pulmonary Opacities as Perifissural Nodules: Reader Variability. Radiology, 2018, 288, 867-875.	7.3	40
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175	The St. George's Respiratory Questionnaire Definition of Chronic Bronchitis May Be a Better Predictor of COPD Exacerbations Compared With the Classic Definition. Chest, 2019, 156, 685-695.	0.8	40
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