Bram van Ginneken

List of Articles by Year
in descending order

335 PR articles	35,975 PR citations	5119 79 PR h-index	3405 180 g-index
459 documents	53830 doc citations	3562 92 h-index	56545 citing authors

#	Article	IF	Citations
1	Segmenting the Inferior Alveolar Canal in CBCT Volumes: The ToothFairy Challenge. IEEE Transactions on Medical Imaging, 2025, 44, 1890-1906.	7.6	8
2	Artificial intelligence for the analysis of intracoronary optical coherence tomography images: a systematic review. European Heart Journal Digital Health, 2025, 6, 270-284.	2.2	5
3	Mechanically Affected Lung and Progression of Emphysema. American Journal of Respiratory and Critical Care Medicine, 2025, 211, 1409-1417.	8.9	6
4	Comprehensive full-vessel segmentation and volumetric plaque quantification for intracoronary optical coherence tomography using deep learning. European Heart Journal Digital Health, 2025, 6, 404-416.	2.2	5
5	ACOUSLIC-AI challenge report: Fetal abdominal circumference measurement on blind-sweep ultrasound data from low-income countries. Medical Image Analysis, 2025, 105, 103640.	10.5	3
6	AIROGS: Artificial Intelligence for Robust Glaucoma Screening Challenge. IEEE Transactions on Medical Imaging, 2024, 43, 542-557.	7.6	51
7	Blood-based Transcriptomic and Proteomic Biomarkers of Emphysema. American Journal of Respiratory and Critical Care Medicine, 2024, 209, 273-287.	8.9	13
8	Computer-aided detection thresholds for digital chest radiography interpretation in tuberculosis diagnostic algorithms. ERJ Open Research, 2024, 10, 00508-2023.	2.5	9
9	Comparison of Commercial AI Software Performance for Radiograph Lung Nodule Detection and Bone Age Prediction. Radiology, 2024, 310, .	8.7	29
10	Nodule Detection and Generation on Chest X-Rays: NODE21 Challenge. IEEE Transactions on Medical Imaging, 2024, 43, 2839-2853.	7.6	19
11	Performance of AI to exclude normal chest radiographs to reduce radiologistsâ€™ workload. European Radiology, 2024, 34, 7255-7263.	3.6	10
12	The STOIC2021 COVID-19 AI challenge: Applying reusable training methodologies to private data. Medical Image Analysis, 2024, 97, 103230.	10.5	4
13	Chronic Obstructive Pulmonary Disease Exacerbations Increase the Risk of Subsequent Cardiovascular Events: A Longitudinal Analysis of the COPDGene Study. Journal of the American Heart Association, 2024, 13, .	4.0	17
14	Uncertainty-aware multiple-instance learning for reliable classification: Application to optical coherence tomography. Medical Image Analysis, 2024, 97, 103259.	10.5	4
15	Structure and position-aware graph neural network for airway labeling. Medical Image Analysis, 2024, 97, 103286.	10.5	2
16	FRODO: An In-Depth Analysis of a System to Reject Outlier Samples From a Trained Neural Network. IEEE Transactions on Medical Imaging, 2023, 42, 971-981.	7.6	18
17	Learn2Reg: Comprehensive Multi-Task Medical Image Registration Challenge, Dataset and Evaluation in the Era of Deep Learning. IEEE Transactions on Medical Imaging, 2023, 42, 697-712.	7.6	181
18	The Liver Tumor Segmentation Benchmark (LiTS). Medical Image Analysis, 2023, 84, 102680.	10.5	777

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19	Dense regression activation maps for lesion segmentation in CT scans of COVID-19 patients. Medical Image Analysis, 2023, 86, 102771.	10.5	13
20	Continual learning strategies for cancer-independent detection of lymph node metastases. Medical Image Analysis, 2023, 85, 102755.	10.5	27
21	Causes of and Clinical Features Associated with Death in Tobacco Cigarette Users by Lung Function Impairment. American Journal of Respiratory and Critical Care Medicine, 2023, 208, 451-460.	8.9	34
22	Optimising computer aided detection to identify intra-thoracic tuberculosis on chest x-ray in South African children. PLOS Global Public Health, 2023, 3, e0001799.	2.1	31
23	Emphysema subtyping on thoracic computed tomography scans using deep neural networks. Scientific Reports, 2023, 13, .	3.4	4
24	Prior CT Improves Deep Learning for Malignancy Risk Estimation of Screening-detected Pulmonary Nodules. Radiology, 2023, 308, .	8.7	20
25	AI-support for the detection of intracranial large vessel occlusions: One-year prospective evaluation. Heliyon, 2023, 9, e19065.	3.3	5
26	Impact of a multi-disease integrated screening and diagnostic model for COVID-19, TB, and HIV in Lesotho. PLOS Global Public Health, 2023, 3, e0001488.	2.1	8
27	Deep learning for the detection of benign and malignant pulmonary nodules in non-screening chest CT scans. Communications Medicine, 2023, 3, .	4.5	56
28	COVID-19 screening in low resource settings using artificial intelligence for chest radiographs and point-of-care blood tests. Scientific Reports, 2023, 13, .	3.4	1
29	Streaming Convolutional Neural Networks for End-to-End Learning With Multi-Megapixel Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1581-1590.	11.2	61
30	Automated COVID-19 Grading With Convolutional Neural Networks in Computed Tomography Scans: A Systematic Comparison. IEEE Transactions on Artificial Intelligence, 2022, 3, 129-138.	4.7	15
31	Scan-based competing death risk model for re-evaluating lung cancer computed tomography screening eligibility. European Respiratory Journal, 2022, 59, 2101613.	8.7	10
32	Imageâ€based automated Psoriasis Area Severity Index scoring by Convolutional Neural Networks. Journal of the European Academy of Dermatology and Venereology, 2022, 36, 68-75.	2.2	54
33	Development of a Blood-based Transcriptional Risk Score for Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 161-170.	8.9	25
34	Longitudinal Association Between Muscle Loss and Mortality in Ever Smokers. Chest, 2022, 161, 960-970.	1.0	38
35	Diffuse idiopathic skeletal hyperostosis is associated with incident stroke in patients with increased cardiovascular risk. Rheumatology, 2022, 61, 2867-2874.	1.9	16
36	Alpha-1 Antitrypsin MZ Heterozygosity Is an Endotype of Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 313-323.	8.9	39

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37	Robust Segmentation Models Using an Uncertainty Slice Sampling-Based Annotation Workflow. IEEE Access, 2022, 10, 4728-4738.	3.0	12
38	Automatic Placenta Localization From Ultrasound Imaging in a Resource-Limited Setting Using a Predefined Ultrasound Acquisition Protocol and Deep Learning. Ultrasound in Medicine and Biology, 2022, 48, 663-674.	2.0	19
39	Automated estimation of total lung volume using chest radiographs and deep learning. Medical Physics, 2022, 49, 4466-4477.	3.1	12
40	Lung tissue shows divergent gene expression between chronic obstructive pulmonary disease and idiopathic pulmonary fibrosis. Respiratory Research, 2022, 23, .	4.2	27
41	Knowledge distillation with ensembles of convolutional neural networks for medical image segmentation. Journal of Medical Imaging, 2022, 9, .	1.2	28
42	Predicting biochemical recurrence of prostate cancer with artificial intelligence. Communications Medicine, 2022, 2, .	4.5	29
43	The Medical Segmentation Decathlon. Nature Communications, 2022, 13, .	13.7	924
44	Prostate158 - An expert-annotated 3T MRI dataset and algorithm for prostate cancer detection. Computers in Biology and Medicine, 2022, 148, 105817.	6.3	64
45	Explainable emphysema detection on chest radiographs with deep learning. PLoS ONE, 2022, 17, e0267539.	2.3	7
46	Patients with diffuse idiopathic skeletal hyperostosis have an increased burden of thoracic aortic calcifications. Rheumatology Advances in Practice, 2022, 6, .	0.7	10
47	Dataset of prostate MRI annotated for anatomical zones and cancer. Data in Brief, 2022, 45, 108739.	1.2	7
48	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.	8.7	134
49	Anisotropic 3D Multi-Stream CNN for Accurate Prostate Segmentation from Multi-Planar MRI. Computer Methods and Programs in Biomedicine, 2021, 200, 105821.	4.6	53
50	Combining pulmonary and cardiac computed tomography biomarkers for disease-specific risk modelling in lung cancer screening. European Respiratory Journal, 2021, 58, 2003386.	8.7	16
51	Computer-aided diagnosis of masses in breast computed tomography imaging: deep learning model with combined handcrafted and convolutional radiomic features. Journal of Medical Imaging, 2021, 8, .	1.2	10
52	Development and Validation of a Convolutional Neural Network for Automated Detection of Scaphoid Fractures on Conventional Radiographs. Radiology: Artificial Intelligence, 2021, 3, e200260.	8.0	42
53	Artificial intelligence in radiology: 100 commercially available products and their scientific evidence. European Radiology, 2021, 31, 3797-3804.	3.6	370
54	Artificial intelligence for detection and characterization of pulmonary nodules in lung cancer CT screening: ready for practice?. Translational Lung Cancer Research, 2021, 10, 2378-2388.	2.0	67

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55	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.	9.5	883
56	How does artificial intelligence in radiology improve efficiency and health outcomes?. Pediatric Radiology, 2021, 52, 2087-2093.	1.8	180
57	Visceral Adipose Tissue and Different Measures of Adiposity in Different Severities of Diffuse Idiopathic Skeletal Hyperostosis. Journal of Personalized Medicine, 2021, 11, 663.	2.4	21
58	Deep learning with robustness to missing data: A novel approach to the detection of COVID-19. PLoS ONE, 2021, 16, e0255301.	2.3	5
59	Deep learning for chest X-ray analysis: A survey. Medical Image Analysis, 2021, 72, 102125.	10.5	388
60	Deep Learning for Malignancy Risk Estimation of Pulmonary Nodules Detected at Low-Dose Screening CT. Radiology, 2021, 300, 438-447.	8.7	137
61	CNN-based lung CT registration with multiple anatomical constraints. Medical Image Analysis, 2021, 72, 102139.	10.5	76
62	Cost-effectiveness of artificial intelligence aided vessel occlusion detection in acute stroke: an early health technology assessment. Insights Into Imaging, 2021, 12, .	3.7	56
63	The Association Between Lung Hyperinflation and Coronary Artery Disease in Smokers. Chest, 2021, 160, 858-871.	1.0	19
64	Assisted versus Manual Interpretation of Low-Dose CT Scans for Lung Cancer Screening: Impact on Lung-RADS Agreement. Radiology Imaging Cancer, 2021, 3, e200160.	3.5	23
65	Adversarial attack vulnerability of medical image analysis systems: Unexplored factors. Medical Image Analysis, 2021, 73, 102141.	10.5	92
66	Deep Learning for Lung Cancer Detection on Screening CT Scans: Results of a Large-Scale Public Competition and an Observer Study with 11 Radiologists. Radiology: Artificial Intelligence, 2021, 3, .	8.0	43
67	Stacked Bidirectional Convolutional LSTMs for Deriving 3D Non-Contrast CT From Spatiotemporal 4D CT. IEEE Transactions on Medical Imaging, 2020, 39, 985-996.	7.6	22
68	Disease Progression Modeling in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 294-302.	8.9	90
69	Automated deep-learning system for Gleason grading of prostate cancer using biopsies: a diagnostic study. Lancet Oncology, The, 2020, 21, 233-241.	27.4	600
70	Machine Learning Characterization of COPD Subtypes. Chest, 2020, 157, 1147-1157.	1.0	66
71	Evaluation of a deep learning system for the joint automated detection of diabetic retinopathy and ageâ€related macular degeneration. Acta Ophthalmologica, 2020, 98, 368-377.	1.0	98
72	Image-level detection of arterial occlusions in 4D-CTA of acute stroke patients using deep learning. Medical Image Analysis, 2020, 66, 101810.	10.5	24

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73	BIAS: Transparent reporting of biomedical image analysis challenges. Medical Image Analysis, 2020, 66, 101796.	10.5	103
74	GANs for medical image analysis. Artificial Intelligence in Medicine, 2020, 109, 101938.	5.7	398
75	Fully Automatic Volume Measurement of the Spleen at CT Using Deep Learning. Radiology: Artificial Intelligence, 2020, 2, e190102.	8.0	33
76	Typical CT Features of Intrapulmonary Lymph Nodes: A Review. Radiology: Cardiothoracic Imaging, 2020, 2, e190159.	3.0	32
77	COVID-19 on Chest Radiographs: A Multireader Evaluation of an Artificial Intelligence System. Radiology, 2020, 296, E166-E172.	8.7	190
78	Iterative Augmentation of Visual Evidence for Weakly-Supervised Lesion Localization in Deep Interpretability Frameworks: Application to Color Fundus Images. IEEE Transactions on Medical Imaging, 2020, 39, 3499-3511.	7.6	33
79	ESR/ERS statement paper on lung cancer screening. European Respiratory Journal, 2020, 55, 1900506.	8.7	79
80	Relational Modeling for Robust and Efficient Pulmonary Lobe Segmentation in CT Scans. IEEE Transactions on Medical Imaging, 2020, 39, 2664-2675.	7.6	104
81	A Deep Learning Model for Segmentation of Geographic Atrophy to Study Its Long-Term Natural History. Ophthalmology, 2020, 127, 1086-1096.	7.8	60
82	Cardiomegaly Detection on Chest Radiographs: Segmentation Versus Classification. IEEE Access, 2020, 8, 94631-94642.	3.0	49
83	Computer-aided diagnosis for World Health Organization-defined chest radiograph primary-endpoint pneumonia in children. Pediatric Radiology, 2020, 50, 482-491.	1.8	69
84	Computer aided detection of tuberculosis on chest radiographs: An evaluation of the CAD4TB v6 system. Scientific Reports, 2020, 10, .	3.4	128
85	CO-RADS: A Categorical CT Assessment Scheme for Patients Suspected of Having COVID-19â€"Definition and Evaluation. Radiology, 2020, 296, E97-E104.	8.7	782
86	Lung cancer screening by nodule volume in Lung-RADS v1.1: negative baseline CT yields potential for increased screening interval. European Radiology, 2020, 31, 1956-1968.	3.6	34
87	Evaluation of computer aided detection of tuberculosis on chest radiography among people with diabetes in Karachi Pakistan. Scientific Reports, 2020, 10, .	3.4	23
88	iW-Net: an automatic and minimalistic interactive lung nodule segmentation deep network. Scientific Reports, 2019, 9, .	3.4	75
89	Image Level Training and Prediction: Intracranial Hemorrhage Identification in 3D Non-Contrast CT. IEEE Access, 2019, 7, 92355-92364.	3.0	57
90	Automated chest X-ray reading for tuberculosis in the Philippines to improve case detection: a cohort study. International Journal of Tuberculosis and Lung Disease, 2019, 23, 805-810.	1.2	13

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91	Epithelium segmentation using deep learning in H&E-stained prostate specimens with immunohistochemistry as reference standard. Scientific Reports, 2019, 9, .	3.4	135
92	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.	6.2	38
93	Reducing inter-observer variability and interaction time of MR liver volumetry by combining automatic CNN-based liver segmentation and manual corrections. PLoS ONE, 2019, 14, e0217228.	2.3	50
94	The St. Georgeâ€™s Respiratory Questionnaire Definition of Chronic Bronchitis May Be aÂBetter Predictor of COPD Exacerbations Compared With the Classic Definition. Chest, 2019, 156, 685-695.	1.0	50
95	Multiclass Brain Tissue Segmentation in 4D CT Using Convolutional Neural Networks. IEEE Access, 2019, 7, 51557-51569.	3.0	19
96	Combined Forced Expiratory Volume in 1 Second and Forced Vital Capacity Bronchodilator Response, Exacerbations, and Mortality in Chronic Obstructive Pulmonary Disease. Annals of the American Thoracic Society, 2019, 16, 826-835.	3.4	51
97	Predicting all-cause and lung cancer mortality using emphysema score progression rate between baseline and follow-up chest CT images: A comparison of risk model performances. PLoS ONE, 2019, 14, e0212756.	2.3	4
98	Genetic landscape of chronic obstructive pulmonary disease identifies heterogeneous cell-type and phenotype associations. Nature Genetics, 2019, 51, 494-505.	25.2	348
99	Iterative fully convolutional neural networks for automatic vertebra segmentation and identification. Medical Image Analysis, 2019, 53, 142-155.	10.5	241
100	Intracerebral Haemorrhage Segmentation in Non-Contrast CT. Scientific Reports, 2019, 9, .	3.4	49
101	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.	7.6	442
102	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.	2.0	81
103	Predicting Malignancy Risk of Screen-Detected Lung Nodulesâ€“Mean Diameter or Volume. Journal of Thoracic Oncology, 2019, 14, 203-211.	2.1	46
104	Airway wall thickening on CT: Relation to smoking status and severity of COPD. Respiratory Medicine, 2019, 146, 36-41.	2.6	74
105	Integrative Genomics Analysis Identifies ACVR1B as a Candidate Causal Gene of Emphysema Distribution. American Journal of Respiratory Cell and Molecular Biology, 2019, 60, 388-398.	3.8	18
106	In vivo growth of 60 non-screening detected lung cancers: a computed tomography study. European Respiratory Journal, 2018, 51, 1702183.	8.7	16
107	Automatic Calcium Scoring in Low-Dose Chest CT Using Deep Neural Networks With Dilated Convolutions. IEEE Transactions on Medical Imaging, 2018, 37, 615-625.	7.6	227
108	Asthma Is a Risk Factor for Respiratory Exacerbations Without Increased Rate of Lung Function Decline. Chest, 2018, 153, 368-377.	1.0	16

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109	Automatic segmentation of the solid core and enclosed vessels in subsolid pulmonary nodules. Scientific Reports, 2018, 8, .	3.4	15
110	Blood eosinophil count thresholds and exacerbations in patients with chronic obstructive pulmonary disease. Journal of Allergy and Clinical Immunology, 2018, 141, 2037-2047.e10.	6.1	205
111	Lung cancer risk to personalise annual and biennial follow-up computed tomography screening. Thorax, 2018, 73, 626-633.	5.6	39
112	Detection of Subsolid Nodules in Lung Cancer Screening. Investigative Radiology, 2018, 53, 441-449.	6.8	41
113	Efficient organ localization using multi-label convolutional neural networks in thorax-abdomen CT scans. Physics in Medicine and Biology, 2018, 63, 085003.	3.1	39
114	Lobar Emphysema Distribution Is Associated With 5-Year Radiological Disease Progression. Chest, 2018, 153, 65-76.	1.0	45
115	ES01.03 Deep Machine Learning for Screening LDCT. Journal of Thoracic Oncology, 2018, 13, S190.	2.1	0
116	Why rankings of biomedical image analysis competitions should be interpreted with care. Nature Communications, 2018, 9, .	13.7	292
117	Automatic liver tumor segmentation in CT with fully convolutional neural networks and object-based postprocessing. Scientific Reports, 2018, 8, .	3.4	213
118	Long-Term Active Surveillance of Screening Detected Subsolid Nodules is a Safe Strategy to Reduce Overtreatment. Journal of Thoracic Oncology, 2018, 13, 1454-1463.	2.1	76
119	Brock malignancy risk calculator for pulmonary nodules: validation outside a lung cancer screening population. Thorax, 2018, 73, 857-863.	5.6	46
120	Classification of CT Pulmonary Opacities as Perifissural Nodules: Reader Variability. Radiology, 2018, 288, 867-875.	8.7	45
121	Accuracy of an automated system for tuberculosis detection on chest radiographs in high-risk screening. International Journal of Tuberculosis and Lung Disease, 2018, 22, 567-571.	1.2	29
122	Deep learning approach for the detection and quantification of intraretinal cystoid fluid in multivendor optical coherence tomography. Biomedical Optics Express, 2018, 9, 1545.	2.8	140
123	Comparison Study of Low-Cost Ultrasound Devices for Estimation of Gestational Age in Resource-Limited Countries. Ultrasound in Medicine and Biology, 2018, 44, 2250-2260.	2.0	12
124	Small airway segmentation in thoracic computed tomography scans: a machine learning approach. Physics in Medicine and Biology, 2018, 63, 155024.	3.1	20
125	Automated measurement of fetal head circumference using 2D ultrasound images. PLoS ONE, 2018, 13, e0200412.	2.3	202
126	Computer-assisted chest radiography reading for tuberculosis screening in people living with diabetes mellitus. International Journal of Tuberculosis and Lung Disease, 2018, 22, 1088-1094.	1.2	32

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127	Evaluation of the diagnostic accuracy of Computer-Aided Detection of tuberculosis on Chest radiography among private sector patients in Pakistan. Scientific Reports, 2018, 8, .	3.4	55
128	Longitudinal Phenotypes and Mortality in Preserved Ratio Impaired Spirometry in the COPDGene Study. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1397-1405.	8.9	253
129	Visual discrimination of screen-detected persistent from transient subsolid nodules: An observer study. PLoS ONE, 2018, 13, e0191874.	2.3	10
130	Using deep convolutional neural networks to identify and classify tumor-associated stroma in diagnostic breast biopsies. Modern Pathology, 2018, 31, 1502-1512.	4.8	184
131	Observer variability for Lung-RADS categorisation of lung cancer screening CTs: impact on patient management. European Radiology, 2018, 29, 924-931.	3.6	55
132	Real-Life Artificial Intelligence Applications. Journal of the Belgian Society of Radiology, 2018, 102, .	0.4	1
133	Discriminating solitary cysts from soft tissue lesions in mammography using a pretrained deep convolutional neural network. Medical Physics, 2017, 44, 1017-1027.	3.1	86
134	Comparison of the effects of model-based iterative reconstruction and filtered back projection algorithms on software measurements in pulmonary subsolid nodules. European Radiology, 2017, 27, 3266-3274.	3.6	18
135	Fast and effective quantification of symmetry in medical images for pathology detection: Application to chest radiography. Medical Physics, 2017, 44, 2242-2256.	3.1	8
136	Fifty years of computer analysis in chest imaging: rule-based, machine learning, deep learning. Radiological Physics and Technology, 2017, 10, 23-32.	1.4	155
137	Deep multi-scale location-aware 3D convolutional neural networks for automated detection of lacunes of presumed vascular origin. NeuroImage: Clinical, 2017, 14, 391-399.	3.3	122
138	Genetic Association and Risk Scores in a Chronic Obstructive Pulmonary Disease Meta-analysis of 16,707 Subjects. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 35-46.	3.8	62
139	Computed tomography quantification of tracheal abnormalities in COPD and their influence on airflow limitation. Medical Physics, 2017, 44, 3594-3603.	3.1	9
140	Computed tomographic findings in subjects who died from respiratory disease in the National Lung Screening Trial. European Respiratory Journal, 2017, 49, 1601814.	8.7	36
141	Towards automatic pulmonary nodule management in lung cancer screening with deep learning. Scientific Reports, 2017, 7, .	3.4	286
142	Malignancy estimation of Lung-RADS criteria for subsolid nodules on CT: accuracy of low and high risk spectrum when using NLST nodules. European Radiology, 2017, 27, 4672-4679.	3.6	16
143	Fast interactive segmentation of the pulmonary lobes from thoracic computed tomography data. Physics in Medicine and Biology, 2017, 62, 6649-6665.	3.1	13
144	Lung-RADS Category 4X: Does It Improve Prediction of Malignancy in Subsolid Nodules?. Radiology, 2017, 284, 264-271.	8.7	52

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145	White Matter and Gray Matter Segmentation in 4D Computed Tomography. Scientific Reports, 2017, 7, .	3.4	24
146	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.	3.6	49
147	Robust cranial cavity segmentation in CT and CT perfusion images of trauma and suspected stroke patients. Medical Image Analysis, 2017, 36, 216-228.	10.5	20
148	A survey on deep learning in medical image analysis. Medical Image Analysis, 2017, 42, 60-88.	10.5	11,651
149	Diagnostic Assessment of Deep Learning Algorithms for Detection of Lymph Node Metastases in Women With Breast Cancer. JAMA - Journal of the American Medical Association, 2017, 318, 2199.	16.6	2,767
150	Robust Segmentation of the Full Cerebral Vasculature in 4D CT of Suspected Stroke Patients. Scientific Reports, 2017, 7, .	3.4	45
151	Validation, comparison, and combination of algorithms for automatic detection of pulmonary nodules in computed tomography images: The LUNA16 challenge. Medical Image Analysis, 2017, 42, 1-13.	10.5	1,079
152	Location Sensitive Deep Convolutional Neural Networks for Segmentation of White Matter Hyperintensities. Scientific Reports, 2017, 7, .	3.4	203
153	Improving airway segmentation in computed tomography using leak detection with convolutional networks. Medical Image Analysis, 2017, 36, 52-60.	10.5	109
154	Large scale deep learning for computer aided detection of mammographic lesions. Medical Image Analysis, 2017, 35, 303-312.	10.5	849
155	Automated Staging of Age-Related Macular Degeneration Using Optical Coherence Tomography. , 2017, 58, 2318.		113
156	Automatic detection of the foveal center in optical coherence tomography. Biomedical Optics Express, 2017, 8, 5160.	2.8	29
157	Robust total retina thickness segmentation in optical coherence tomography images using convolutional neural networks. Biomedical Optics Express, 2017, 8, 3292.	2.8	122
158	Automatic versus human reading of chest X-rays in the Zambia National Tuberculosis Prevalence Survey. International Journal of Tuberculosis and Lung Disease, 2017, 21, 880-886.	1.2	32
159	Malignancy risk estimation of pulmonary nodules in screening CTs: Comparison between a computer model and human observers. PLoS ONE, 2017, 12, e0185032.	2.3	32
160	Normalized emphysema scores on low dose CT: Validation as an imaging biomarker for mortality. PLoS ONE, 2017, 12, e0188902.	2.3	16
161	Incidental perifissural nodules on routine chest computed tomography: lung cancer or not?. European Radiology, 2017, 28, 1095-1101.	3.6	34
162	Context-aware stacked convolutional neural networks for classification of breast carcinomas in whole-slide histopathology images. Journal of Medical Imaging, 2017, 4, 1.	1.2	144

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163	Optimization Strategies for Interactive Classification of Interstitial Lung Disease Textures. Frontiers in ICT, 2016, 3, .	2.0	0
164	The Effect of Supplementary Bone-Suppressed Chest Radiographs on the Assessment of a Variety of Common Pulmonary Abnormalities. Journal of Thoracic Imaging, 2016, 31, 119-125.	1.5	8
165	Automatic differentiation of color fundus images containing drusen or exudates using a contextual spatial pyramid approach. Biomedical Optics Express, 2016, 7, 709.	2.8	8
166	An automated tuberculosis screening strategy combining X-ray-based computer-aided detection and clinical information. Scientific Reports, 2016, 6, .	3.4	128
167	Deep learning as a tool for increased accuracy and efficiency of histopathological diagnosis. Scientific Reports, 2016, 6, .	3.4	933
168	Semi-automatic classification of textures in thoracic CT scans. Physics in Medicine and Biology, 2016, 61, 5906-5924.	3.1	6
169	Fleischner recommendations for the management of subsolid pulmonary nodules: high awareness but limited conformance â€“ a survey study. European Radiology, 2016, 26, 3840-3849.	3.6	33
170	Software performance in segmenting ground-glass and solid components of subsolid nodules in pulmonary adenocarcinomas. European Radiology, 2016, 26, 4465-4474.	3.6	46
171	Follow-up of CT-derived airway wall thickness: Correcting for changes in inspiration level improves reliability. European Journal of Radiology, 2016, 85, 2008-2013.	2.9	9
172	The effect of late-phase contrast enhancement on semi-automatic software measurements of CT attenuation and volume of part-solid nodules in lung adenocarcinomas. European Journal of Radiology, 2016, 85, 1174-1180.	2.9	17
173	Guest Editorial Deep Learning in Medical Imaging: Overview and Future Promise of an Exciting New Technique. IEEE Transactions on Medical Imaging, 2016, 35, 1153-1159.	7.6	1,433
174	Content-Based Image Retrieval by Metric Learning From Radiology Reports: Application to Interstitial Lung Diseases. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 281-292.	5.3	37
175	Pulmonary Nodule Detection in CT Images: False Positive Reduction Using Multi-View Convolutional Networks. IEEE Transactions on Medical Imaging, 2016, 35, 1160-1169.	7.6	1,073
176	Computer Vision Tool and Technician as First Reader of Lung Cancer Screening CT Scans. Journal of Thoracic Oncology, 2016, 11, 709-717.	2.1	35
177	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.	7.6	375
178	Automatic detection of pleural effusion in chest radiographs. Medical Image Analysis, 2016, 28, 22-32.	10.5	34
179	On Combining Multiple-Instance Learning and Active Learning for Computer-Aided Detection of Tuberculosis. IEEE Transactions on Medical Imaging, 2016, 35, 1013-1024.	7.6	52
180	Quantitative Dose Dependency Analysis of Whole-Brain CT Perfusion Imaging. Radiology, 2016, 278, 190-197.	8.7	23

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