Nikolas Lessmann

List of Publications by Year
in descending order

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32 papers	1,355 citations	516561 16 h-index	501076 28 g-index
32 all docs	32 docs citations	32 times ranked	1956 citing authors

#	Article	IF	Citations
1	Automatic Calcium Scoring in Low-Dose Chest CT Using Deep Neural Networks With Dilated Convolutions. IEEE Transactions on Medical Imaging, 2018, 37, 615-625.	5.4	176
2	Iterative fully convolutional neural networks for automatic vertebra segmentation and identification. Medical Image Analysis, 2019, 53, 142-155.	7.0	170
3	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.	7.0	154
4	Deep Learning for Automatic Calcium Scoring in CT: Validation Using Multiple Cardiac CT and Chest CT Protocols. Radiology, 2020, 295, 66-79.	3.6	140
5	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.	3.6	116
6	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. Medical Image Analysis, 2021, 73, 102166.	7.0	112
7	Automatic brain tissue segmentation in fetal MRI using convolutional neural networks. Magnetic Resonance Imaging, 2019, 64, 77-89.	1.0	86
8	Direct Automatic Coronary Calcium Scoring in Cardiac and Chest CT. IEEE Transactions on Medical Imaging, 2019, 38, 2127-2138.	5.4	82
9	CNN-based lung CT registration with multiple anatomical constraints. Medical Image Analysis, 2021, 72, 102139.	7.0	39
10	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.	3.4	35
11	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.	0.3	28
12	Computed tomographic findings in subjects who died from respiratory disease in the National Lung Screening Trial. European Respiratory Journal, 2017, 49, 1601814.	3.1	26
13	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.	2.3	25
14	Coronary calcium scoring with partial volume correction in anthropomorphic thorax phantom and screening chest CT images. PLoS ONE, 2018, 13, e0209318.	1.1	23
15	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
16	Six months vitamin K treatment does not affect systemic arterial calcification or bone mineral density in diabetes mellitus 2. European Journal of Nutrition, 2021, 60, 1691-1699.	1.8	21
17	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.	0.8	16
18	Automated calcium scores collected during myocardial perfusion imaging improve identification of obstructive coronary artery disease. IJC Heart and Vasculature, 2020, 26, 100434.	0.6	11

#	Article	IF	Citations
19	High levels of osteoprotegerin are associated with coronary artery calcification in patients suspected of a chronic coronary syndrome. Scientific Reports, 2021, 11, 18946.	1.6	10
20	Automated COVID-19 Grading With Convolutional Neural Networks in Computed Tomography Scans: A Systematic Comparison. IEEE Transactions on Artificial Intelligence, 2022, 3, 129-138.	3.4	9
21	Combining pulmonary and cardiac computed tomography biomarkers for disease-specific risk modelling in lung cancer screening. European Respiratory Journal, 2021, 58, 2003386.	3.1	8
22	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.	0.8	7
23	Deep Learningâ€"Quantified Calcium Scores for Automatic Cardiovascular Mortality Prediction at Lung Screening Low-Dose CT. Radiology: Cardiothoracic Imaging, 2021, 3, e190219.	0.9	7
24	Direct prediction of cardiovascular mortality from low-dose chest CT using deep learning. , 2019, , .		7
25	Impact of automatically detected motion artifacts on coronary calcium scoring in chest computed tomography. Journal of Medical Imaging, 2018, 5, 1.	0.8	6
26	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.	0.6	5
27	Iterative convolutional neural networks for automatic vertebra identification and segmentation in CT images. , 2018, , .		5
28	Scan-based competing death risk model for re-evaluating lung cancer computed tomography screening eligibility. European Respiratory Journal, 2022, 59, 2101613.	3.1	5
29	Feasibility of respiratory motion-compensated stereoscopic X-ray tracking for bronchoscopy. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 199-209.	1.7	2
30	Automatic Brand Identification of Orthopedic Implants from Radiographs: Ready for the Next Step?. Radiology: Artificial Intelligence, 2022, 4, e220008.	3.0	1
31	Segmentation of vertebrae and intervertebral discs in lumbar spine MR images with iterative instance segmentation. , 2022, , .		1
32	MA20.09 Improved Lung Cancer and Mortality Prediction Accuracy Using Survival Models Based on Semi-Automatic CT Image Measurements. Journal of Thoracic Oncology, 2018, 13, S428.	0.5	0