

Nikolas Lessmann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

683
citations

12
h-index

26
g-index

32
ext. papers

1,036
ext. citations

8.5
avg, IF

4.35
L-index

#	Paper	IF	Citations
30	Automated COVID-19 Grading With Convolutional Neural Networks in Computed Tomography Scans: A Systematic Comparison.. <i>IEEE Transactions on Artificial Intelligence</i> , 2022 , 3, 129-138	4.7	1
29	Automatic Brand Identification of Orthopedic Implants from Radiographs: Ready for the Next Step?. <i>Radiology: Artificial Intelligence</i> , 2022 , 4, e220008	8.7	
28	Scan-based competing death risk model for reevaluating lung cancer computed tomography screening eligibility. <i>European Respiratory Journal</i> , 2021 ,	13.6	3
27	Deep Learning-Quantified Calcium Scores for Automatic Cardiovascular Mortality Prediction at Lung Screening Low-Dose CT. <i>Radiology: Cardiothoracic Imaging</i> , 2021 , 3, e190219	8.3	0
26	Automated Assessment of COVID-19 Reporting and Data System and Chest CT Severity Scores in Patients Suspected of Having COVID-19 Using Artificial Intelligence. <i>Radiology</i> , 2021 , 298, E18-E28	20.5	63
25	Six months vitamin K treatment does not affect systemic arterial calcification or bone mineral density in diabetes mellitus 2. <i>European Journal of Nutrition</i> , 2021 , 60, 1691-1699	5.2	12
24	Combining pulmonary and cardiac computed tomography biomarkers for disease-specific risk modelling in lung cancer screening. <i>European Respiratory Journal</i> , 2021 , 58,	13.6	2
23	Identification of Risk of Cardiovascular Disease by Automatic Quantification of Coronary Artery Calcifications on Radiotherapy Planning CT Scans in Patients With Breast Cancer. <i>JAMA Oncology</i> , 2021 , 7, 1024-1032	13.4	6
22	CNN-based lung CT registration with multiple anatomical constraints. <i>Medical Image Analysis</i> , 2021 , 72, 102139	15.4	8
21	High levels of osteoprotegerin are associated with coronary artery calcification in patients suspected of a chronic coronary syndrome. <i>Scientific Reports</i> , 2021 , 11, 18946	4.9	1
20	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. <i>Medical Image Analysis</i> , 2021 , 73, 102166	15.4	19
19	Multifocal cardiovascular calcification in patients with established cardiovascular disease; prevalence, risk factors, and relation with recurrent cardiovascular disease. <i>IJC Heart and Vasculature</i> , 2020 , 27, 100499	2.4	3
18	Deep Learning for Automatic Calcium Scoring in CT: Validation Using Multiple Cardiac CT and Chest CT Protocols. <i>Radiology</i> , 2020 , 295, 66-79	20.5	64
17	The Association Between Marital Status, Coronary Computed Tomography Imaging Biomarkers, and Mortality in a Lung Cancer Screening Population. <i>Journal of Thoracic Imaging</i> , 2020 , 35, 204-209	5.6	3
16	Automated calcium scores collected during myocardial perfusion imaging improve identification of obstructive coronary artery disease. <i>IJC Heart and Vasculature</i> , 2020 , 26, 100434	2.4	10
15	Sex Differences in Coronary Artery and Thoracic Aorta Calcification and Their Association With Cardiovascular Mortality in Heavy Smokers. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1808-1817	8.4	8
14	Automatic brain tissue segmentation in fetal MRI using convolutional neural networks. <i>Magnetic Resonance Imaging</i> , 2019 , 64, 77-89	3.3	39

13	Direct Automatic Coronary Calcium Scoring in Cardiac and Chest CT. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 2127-2138	11.7	47
12	Direct prediction of cardiovascular mortality from low-dose chest CT using deep learning 2019 ,		5
11	Iterative fully convolutional neural networks for automatic vertebra segmentation and identification. <i>Medical Image Analysis</i> , 2019 , 53, 142-155	15.4	86
10	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. <i>BMJ Open</i> , 2019 , 9, e028752	3	9
9	Automatic Calcium Scoring in Low-Dose Chest CT Using Deep Neural Networks With Dilated Convolutions. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 615-625	11.7	121
8	Impact of automatically detected motion artifacts on coronary calcium scoring in chest computed tomography. <i>Journal of Medical Imaging</i> , 2018 , 5, 044007	2.6	4
7	Iterative convolutional neural networks for automatic vertebra identification and segmentation in CT images 2018 ,		3
6	Deep learning analysis of the myocardium in coronary CT angiography for identification of patients with functionally significant coronary artery stenosis. <i>Medical Image Analysis</i> , 2018 , 44, 72-85	15.4	103
5	Coronary calcium scoring with partial volume correction in anthropomorphic thorax phantom and screening chest CT images. <i>PLoS ONE</i> , 2018 , 13, e0209318	3.7	11
4	Automatic quantification of calcifications in the coronary arteries and thoracic aorta on radiotherapy planning CT scans of Western and Asian breast cancer patients. <i>Radiotherapy and Oncology</i> , 2018 , 127, 487-492	5.3	18
3	Computed tomographic findings in subjects who died from respiratory disease in the National Lung Screening Trial. <i>European Respiratory Journal</i> , 2017 , 49,	13.6	16
2	Deep convolutional neural networks for automatic coronary calcium scoring in a screening study with low-dose chest CT 2016 ,		16
1	Feasibility of respiratory motion-compensated stereoscopic X-ray tracking for bronchoscopy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014 , 9, 199-209	3.9	2