

# Nikolas Lessmann

## List of Publications by Citations

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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 | Automatic Calcium Scoring in Low-Dose Chest CT Using Deep Neural Networks With Dilated Convolutions. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 615-625   | 11.7 | 121       |
| 29 | 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> , <b>2018</b> , 44, 72-85   | 15.4 | 103       |
| 28 | Iterative fully convolutional neural networks for automatic vertebra segmentation and identification. <i>Medical Image Analysis</i> , <b>2019</b> , 53, 142-155  | 15.4 | 86        |
| 27 | Deep Learning for Automatic Calcium Scoring in CT: Validation Using Multiple Cardiac CT and Chest CT Protocols. <i>Radiology</i> , <b>2020</b> , 295, 66-79  | 20.5 | 64        |
| 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> , <b>2021</b> , 298, E18-E28  | 20.5 | 63        |
| 25 | Direct Automatic Coronary Calcium Scoring in Cardiac and Chest CT. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 2127-2138   | 11.7 | 47        |
| 24 | Automatic brain tissue segmentation in fetal MRI using convolutional neural networks. <i>Magnetic Resonance Imaging</i> , <b>2019</b> , 64, 77-89  | 3.3  | 39        |
| 23 | VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. <i>Medical Image Analysis</i> , <b>2021</b> , 73, 102166   | 15.4 | 19        |
| 22 | 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> , <b>2018</b> , 127, 487-492                                | 5.3  | 18        |
| 21 | Computed tomographic findings in subjects who died from respiratory disease in the National Lung Screening Trial. <i>European Respiratory Journal</i> , <b>2017</b> , 49,  | 13.6 | 16        |
| 20 | Deep convolutional neural networks for automatic coronary calcium scoring in a screening study with low-dose chest CT <b>2016</b> ,  |      | 16        |
| 19 | 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> , <b>2021</b> , 60, 1691-1699  | 5.2  | 12        |
| 18 | Coronary calcium scoring with partial volume correction in anthropomorphic thorax phantom and screening chest CT images. <i>PLoS ONE</i> , <b>2018</b> , 13, e0209318  | 3.7  | 11        |
| 17 | Automated calcium scores collected during myocardial perfusion imaging improve identification of obstructive coronary artery disease. <i>IJC Heart and Vasculature</i> , <b>2020</b> , 26, 100434  | 2.4  | 10        |
| 16 | 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> , <b>2019</b> , 9, e028752 | 3    | 9         |
| 15 | Sex Differences in Coronary Artery and Thoracic Aorta Calcification and Their Association With Cardiovascular Mortality in Heavy Smokers. <i>JACC: Cardiovascular Imaging</i> , <b>2019</b> , 12, 1808-1817  | 8.4  | 8         |
| 14 | CNN-based lung CT registration with multiple anatomical constraints. <i>Medical Image Analysis</i> , <b>2021</b> , 72, 102139  | 15.4 | 8         |

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|----|--|------|---|
| 13 | 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> , <b>2021</b> , 7, 1024-1032     | 13.4 | 6 |
| 12 | Direct prediction of cardiovascular mortality from low-dose chest CT using deep learning <b>2019</b> ,   |      | 5 |
| 11 | Impact of automatically detected motion artifacts on coronary calcium scoring in chest computed tomography. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 044007  | 2.6  | 4 |
| 10 | Multifocal cardiovascular calcification in patients with established cardiovascular disease; prevalence, risk factors, and relation with recurrent cardiovascular disease. <i>IJC Heart and Vasculature</i> , <b>2020</b> , 27, 100499 | 2.4  | 3 |
| 9  | Iterative convolutional neural networks for automatic vertebra identification and segmentation in CT images <b>2018</b> ,  |      | 3 |
| 8  | Scan-based competing death risk model for reevaluating lung cancer computed tomography screening eligibility. <i>European Respiratory Journal</i> , <b>2021</b> ,  | 13.6 | 3 |
| 7  | The Association Between Marital Status, Coronary Computed Tomography Imaging Biomarkers, and Mortality in a Lung Cancer Screening Population. <i>Journal of Thoracic Imaging</i> , <b>2020</b> , 35, 204-209                           | 5.6  | 3 |
| 6  | Feasibility of respiratory motion-compensated stereoscopic X-ray tracking for bronchoscopy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2014</b> , 9, 199-209   | 3.9  | 2 |
| 5  | Combining pulmonary and cardiac computed tomography biomarkers for disease-specific risk modelling in lung cancer screening. <i>European Respiratory Journal</i> , <b>2021</b> , 58,   | 13.6 | 2 |
| 4  | Automated COVID-19 Grading With Convolutional Neural Networks in Computed Tomography Scans: A Systematic Comparison.. <i>IEEE Transactions on Artificial Intelligence</i> , <b>2022</b> , 3, 129-138                                   | 4.7  | 1 |
| 3  | High levels of osteoprotegerin are associated with coronary artery calcification in patients suspected of a chronic coronary syndrome. <i>Scientific Reports</i> , <b>2021</b> , 11, 18946   | 4.9  | 1 |
| 2  | Deep Learning-Quantified Calcium Scores for Automatic Cardiovascular Mortality Prediction at Lung Screening Low-Dose CT. <i>Radiology: Cardiothoracic Imaging</i> , <b>2021</b> , 3, e190219   | 8.3  | 0 |
| 1  | Automatic Brand Identification of Orthopedic Implants from Radiographs: Ready for the Next Step?. <i>Radiology: Artificial Intelligence</i> , <b>2022</b> , 4, e220008   | 8.7  |   |