Bob D De Vos

List of Publications by Year
in descending order

21 papers	1,915 citations	623188 14 h-index	752256 20 g-index
23 all docs	23 docs citations	23 times ranked	2318 citing authors

#	Article	IF	Citations
1	Autoencoding low-resolution MRI for semantically smooth interpolation of anisotropic MRI. Medical Image Analysis, 2022, 78, 102393.	7.0	5
2	Generative models for reproducible coronary calcium scoring. Journal of Medical Imaging, 2022, 9, .	0.8	3
3	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
4	Deep Learning-Based Regression and Classification for Automatic Landmark Localization in Medical Images. IEEE Transactions on Medical Imaging, 2020, 39, 4011-4022.	5.4	70
5	Automatic segmentation with detection of local segmentation failures in cardiac MRI. Scientific Reports, 2020, 10, 21769.	1.6	29
6	Deep Group-Wise Variational Diffeomorphic Image Registration. Lecture Notes in Computer Science, 2020, , 155-164.	1.0	2
7	State-of-the-Art Deep Learning in Cardiovascular Image Analysis. JACC: Cardiovascular Imaging, 2019, 12, 1549-1565.	2.3	238
8	Direct Automatic Coronary Calcium Scoring in Cardiac and Chest CT. IEEE Transactions on Medical Imaging, 2019, 38, 2127-2138.	5.4	82
9	A deep learning framework for unsupervised affine and deformable image registration. Medical Image Analysis, 2019, 52, 128-143.	7.0	512
10	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
11	Automatic determination of cardiovascular risk by CT attenuation correction maps in Rb-82 PET/CT. Journal of Nuclear Cardiology, 2018, 25, 2133-2142.	1.4	49
12	Coronary calcium scoring with partial volume correction in anthropomorphic thorax phantom and screening chest CT images. PLoS ONE, 2018, 13, e0209318.	1.1	23
13	Impact of automatically detected motion artifacts on coronary calcium scoring in chest computed tomography. Journal of Medical Imaging, 2018, 5, 1.	0.8	6
14	Automatic segmentation of thoracic aorta segments in low-dose chest CT. , 2018, , .		18
15	ConvNet-Based Localization of Anatomical Structures in 3-D Medical Images. IEEE Transactions on Medical Imaging, 2017, 36, 1470-1481.	5.4	94
16	End-to-End Unsupervised Deformable Image Registration with a Convolutional Neural Network. Lecture Notes in Computer Science, 2017, , 204-212.	1.0	251
17	An evaluation of automatic coronary artery calcium scoring methods with cardiac CT using the orCaScore framework. Medical Physics, 2016, 43, 2361-2373.	1.6	63
18	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

#	Article	IF	Citations
19	Automatic coronary artery calcium scoring in cardiac CT angiography using paired convolutional neural networks. Medical Image Analysis, 2016, 34, 123-136.	7.0	228
20	Automatic detection of cardiovascular risk in CT attenuation correction maps in Rb-82 PET/CTs. Proceedings of SPIE, 2016, , .	0.8	2
21	Automatic Coronary Artery Calcium Scoring on Radiotherapy Planning CT Scans of Breast Cancer Patients: Reproducibility and Association with Traditional Cardiovascular Risk Factors. PLoS ONE, 2016, 11, e0167925.	1.1	35