Sergio Pereira

List of Publications by Year in descending order

29 papers	6,698 citations	566801 15 h-index	752256 20 g-index
29 all docs	29 docs citations	29 times ranked	6746 citing authors

#	Article	IF	Citations
1	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). IEEE Transactions on Medical Imaging, 2015, 34, 1993-2024.	5.4	3,589
2	Brain Tumor Segmentation Using Convolutional Neural Networks in MRI Images. IEEE Transactions on Medical Imaging, 2016, 35, 1240-1251.	5.4	1,825
3	Retinal vessel segmentation based on Fully Convolutional Neural Networks. Expert Systems With Applications, 2018, 112, 229-242.	4.4	217
4	On the Interpretability of Artificial Intelligence in Radiology: Challenges and Opportunities. Radiology: Artificial Intelligence, 2020, 2, e190043.	3.0	212
5	MRBrainS Challenge: Online Evaluation Framework for Brain Image Segmentation in 3T MRI Scans. Computational Intelligence and Neuroscience, 2015, 2015, 1-16.	1.1	179
6	Enhancing interpretability of automatically extracted machine learning features: application to a RBM-Random Forest system on brain lesion segmentation. Medical Image Analysis, 2018, 44, 228-244.	7.0	76
7	Automatic Brain Tumor Grading from MRI Data Using Convolutional Neural Networks and Quality Assessment. Lecture Notes in Computer Science, 2018, , 106-114.	1.0	76
8	Hierarchical brain tumour segmentation using extremely randomized trees. Pattern Recognition, 2018, 82, 105-117.	5.1	67
9	Brain Tumour Segmentation based on Extremely Randomized Forest with high-level features. , 2015, 2015, 3037-40.		66
10	Adaptive Feature Recombination and Recalibration for Semantic Segmentation With Fully Convolutional Networks. IEEE Transactions on Medical Imaging, 2019, 38, 2914-2925.	5.4	58
11	Deep Convolutional Neural Networks for the Segmentation of Gliomas in Multi-sequence MRI. Lecture Notes in Computer Science, 2016, , 131-143.	1.0	57
12	Automatic brain tissue segmentation in MR images using Random Forests and Conditional Random Fields. Journal of Neuroscience Methods, 2016, 270, 111-123.	1.3	50
13	On hierarchical brain tumor segmentation in MRI using fully convolutional neural networks: A preliminary study. , 2017, , .		29
14	Multi-surface segmentation of OCT images with AMD using sparse high order potentials. Biomedical Optics Express, 2017, 8, 281.	1.5	29
15	Adaptive Feature Recombination and Recalibration for Semantic Segmentation: Application to Brain Tumor Segmentation in MRI. Lecture Notes in Computer Science, 2018, , 706-714.	1.0	28
16	Augmenting data when training a CNN for retinal vessel segmentation: How to warp?. , 2017, , .		26
17	Artificial intelligenceâ€“powered programmed death ligandÂ1 analyser reduces interobserver variation in tumour proportion score for nonâ€“small cell lung cancer with better prediction of immunotherapy response. European Journal of Cancer, 2022, 170, 17-26.	1.3	21
18	Random decision forests for automatic brain tumor segmentation on multi-modal MRI images. , 2015, , .		18

#	Article	IF	Citations
19	Enhancing Clinical MRI Perfusion Maps with Data-Driven Maps of Complementary Nature for Lesion Outcome Prediction. Lecture Notes in Computer Science, 2018, , 107-115.	1.0	16
20	Combining unsupervised and supervised learning for predicting the final stroke lesion. Medical Image Analysis, 2021, 69, 101888.	7.0	14
21	Multi-stage Deep Layer Aggregation forÂBrain Tumor Segmentation. Lecture Notes in Computer Science, 2021, , 179-188.	1.0	11
22	Crime Prediction Using Regression and Resources Optimization. Lecture Notes in Computer Science, 2015, , 513-524.	1.0	10
23	A Phase II Study of Nivolumab plus Gemcitabine in Patients with Recurrent or Metastatic Nasopharyngeal Carcinoma (KCSG HN17â€“11). Clinical Cancer Research, 2022, 28, 4240-4247.	3.2	10
24	Sparse high order potentials for extending multi-surface segmentation of OCT images with drusen. , 2015, 2015, 2952-5.		5
25	Optical Filter for Providing the Required Illumination to Enable Narrow Band Imaging. Procedia Engineering, 2014, 87, 1414-1417.	1.2	4
26	A middleware for intelligent environments in ambient assisted living. , 2014, 2014, 5924-7.		3
27	Segmentation Squeeze-and-Excitation Blocks in Stroke Lesion Outcome Prediction. , 2019, , .		1
28	A Fully Automatic Tool for Counting Virchow-Robin Spaces in Magnetic Resonance Imaging for Lacunar Stroke Study. , 2015, , .		1
29	Modelling brain tissues intensities using dirichlet process. , 2017, , .		0