Sergio Pereira

List of Publications by Citations

25 papers	4,108 citations	16 h-index	29 g-index
29 ext. papers	5,389 ext. citations	5.4 avg, IF	5.48 L-index

#	Paper	IF	Citations
25	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). *IEEE Transactions on Medical Imaging*, **2015**, 34, 1993-2024	11.7	2132
24	Brain Tumor Segmentation Using Convolutional Neural Networks in MRI Images. *IEEE Transactions on Medical Imaging*, **2016**, 35, 1240-1251	11.7	1237
23	MRBrainS Challenge: Online Evaluation Framework for Brain Image Segmentation in 3T MRI Scans. *Computational Intelligence and Neuroscience*, **2015**, 2015, 813696	3	127
22	Retinal vessel segmentation based on Fully Convolutional Neural Networks. *Expert Systems With Applications*, **2018**, 112, 229-242	7.8	123
21	On the Interpretability of Artificial Intelligence in Radiology: Challenges and Opportunities. *Radiology: Artificial Intelligence*, **2020**, 2, e190043	8.7	78
20	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	15.4	54
19	Brain Tumour Segmentation based on Extremely Randomized Forest with high-level features. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 3037-40	0.9	44
18	Hierarchical brain tumour segmentation using extremely randomized trees. *Pattern Recognition*, **2018**, 82, 105-117	7.7	41
17	Automatic brain tissue segmentation in MR images using Random Forests and Conditional Random Fields. *Journal of Neuroscience Methods*, **2016**, 270, 111-123	3	40
16	Deep Convolutional Neural Networks for the Segmentation of Gliomas in Multi-sequence MRI. *Lecture Notes in Computer Science*, **2016**, 131-143	0.9	39
15	Adaptive Feature Recombination and Recalibration for Semantic Segmentation With Fully Convolutional Networks. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2914-2925	11.7	32
14	Automatic Brain Tumor Grading from MRI Data Using Convolutional Neural Networks and Quality Assessment. *Lecture Notes in Computer Science*, **2018**, 106-114	0.9	30
13	Adaptive Feature Recombination and Recalibration for Semantic Segmentation: Application to Brain Tumor Segmentation in MRI. *Lecture Notes in Computer Science*, **2018**, 706-714	0.9	23
12	Multi-surface segmentation of OCT images with AMD using sparse high order potentials. *Biomedical Optics Express*, **2017**, 8, 281-297	3.5	21
11	On hierarchical brain tumor segmentation in MRI using fully convolutional neural networks: A preliminary study **2017**,		19
10	Augmenting data when training a CNN for retinal vessel segmentation: How to warp? **2017**,		18
9	Random decision forests for automatic brain tumor segmentation on multi-modal MRI images **2015** ,		15

8	Enhancing Clinical MRI Perfusion Maps with Data-Driven Maps of Complementary Nature for Lesion Outcome Prediction. *Lecture Notes in Computer Science*, **2018**, 107-115	0.9	7
7	Combining unsupervised and supervised learning for predicting the final stroke lesion. *Medical Image Analysis*, **2021**, 69, 101888	15.4	7
6	Crime Prediction Using Regression and Resources Optimization. *Lecture Notes in Computer Science*, **2015**, 513-524	0.9	6
5	Sparse high order potentials for extending multi-surface segmentation of OCT images with drusen. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 2952-5	0.9	4
4	A middleware for intelligent environments in ambient assisted living. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 5924-7	0.9	3
3	Optical Filter for Providing the Required Illumination to Enable Narrow Band Imaging. *Procedia Engineering*, **2014**, 87, 1414-1417		3
2	Multi-stage Deep Layer Aggregation for Brain Tumor Segmentation. *Lecture Notes in Computer Science*, **2021**, 179-188	0.9	3
1	Artificial intelligence-powered programmed death ligand□1 analyser reduces interobserver variation in tumour proportion score for non-small cell lung cancer with better prediction of immunotherapy response.. *European Journal of Cancer*, **2022**, 170, 17-26	7.5	1