Caroline Petitjean

List of Publications by Year
in descending order

56	3,495	304368 22	276539 41
papers	citations	h-index	g-index

58	58	58	3865
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Dataset for Breast Cancer Histopathological Image Classification. IEEE Transactions on Biomedical Engineering, 2016, 63, 1455-1462.	2.5	938
2	A review of segmentation methods in short axis cardiac MR images. Medical Image Analysis, 2011, 15, 169-184.	7.0	602
3	Medical Image Synthesis with Deep Convolutional Adversarial Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 2720-2730.	2.5	392
4	Multiple instance learning for histopathological breast cancer image classification. Expert Systems With Applications, 2019, 117, 103-111.	4.4	262
5	Right ventricle segmentation from cardiac MRI: A collation study. Medical Image Analysis, 2015, 19, 187-202.	7.0	189
6	Assessment of Myocardial Function: A Review of Quantification Methods and Results Using Tagged MRI. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 501-516.	1.6	120
7	One class random forests. Pattern Recognition, 2013, 46, 3490-3506.	5.1	116
8	Graph cut segmentation with a statistical shape model in cardiac MRI. Computer Vision and Image Understanding, 2013, 117, 1027-1035.	3.0	74
9	Cardiac MRI Assessment of Right Ventricular Function in Acquired Heart Disease. Academic Radiology, 2012, 19, 991-1002.	1.3	70
10	Diagnostic accuracy and variability of three semi-quantitative methods for assessing right ventricular systolic function from cardiac MRI in patients with acquired heart disease. European Radiology, 2011, 21, 2111-2120.	2.3	63
11	Automatic cardiac ventricle segmentation in MR images: a validation study. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 573-581.	1.7	62
12	A non-rigid registration approach for quantifying myocardial contraction in tagged MRI using generalized information measures. Medical Image Analysis, 2005, 9, 353-375.	7.0	49
13	High-level prior-based loss functions for medical image segmentation: A survey. Computer Vision and Image Understanding, 2021, 210, 103248.	3.0	43
14	Classification of Endomicroscopic Images of the Lung Based on Random Subwindows and Extra-Trees. IEEE Transactions on Biomedical Engineering, 2012, 59, 2677-2683.	2.5	40
15	Automatic classification of human sperm head morphology. Computers in Biology and Medicine, 2017, 84, 205-216.	3.9	40
16	BB-UNet: U-Net With Bounding Box Prior. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1189-1198.	7.3	35
17	Prediction of Lung Tumor Evolution During Radiotherapy in Individual Patients With PET. IEEE Transactions on Medical Imaging, 2014, 33, 995-1003.	5.4	34
18	Joint tumor growth prediction and tumor segmentation on therapeutic follow-up PET images. Medical Image Analysis, 2015, 23, 84-91.	7.0	25

#	Article	IF	Citations
19	Robust feature selection to predict tumor treatment outcome. Artificial Intelligence in Medicine, 2015, 64, 195-204.	3.8	24
20	Joint Segmentation of Multiple Thoracic Organs in CT Images with Two Collaborative Deep Architectures. Lecture Notes in Computer Science, 2017, 10553, 21-29.	1.0	24
21	Scattering features for lung cancer detection in fibered confocal fluorescence microscopy images. Artificial Intelligence in Medicine, 2014, 61, 105-118.	3.8	23
22	A scalable pattern spotting system for historical documents. Pattern Recognition, 2016, 54, 149-161.	5.1	23
23	An SVM-based distal lung image classification using texture descriptors. Computerized Medical Imaging and Graphics, 2012, 36, 264-270.	3.5	20
24	In Vitro Assessment of a 3D Segmentation Algorithm Based on the Belief Functions Theory in Calculating Renal Volumes by MRI. American Journal of Roentgenology, 2008, 191, W127-W134.	1.0	15
25	A Random Forest Based Approach for One Class Classification in Medical Imaging. Lecture Notes in Computer Science, 2012, , 250-257.	1.0	15
26	Building and using a statistical 3D motion atlas for analyzing myocardial contraction in MRI. , 2004, , .		14
27	Fully automated esophagus segmentation with a hierarchical deep learning approach. , 2017, 2017, 503-506.		13
28	Esophagus Segmentation from 3D CT Data Using Skeleton Prior-Based Graph Cut. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-6.	0.7	11
29	New public dataset for spotting patterns in medieval document images. Journal of Electronic Imaging, 2016, 26, 011010.	0.5	10
30	Improving pattern spotting in historical documents using feature pyramid networks. Pattern Recognition Letters, 2020, 131, 398-404.	2.6	10
31	Pattern localization in historical document images via template matching. , 2016, , .		9
32	Extreme learning machine for out-of-sample extension in Laplacian eigenmaps. Pattern Recognition Letters, 2016, 74, 68-73.	2.6	9
33	3D automated lymphoma segmentation in PET images based on cellular automata. , 2014, , .		8
34	Segmentation of lymphoma tumor in PET images using cellular automata: A preliminary study. Irbm, 2016, 37, 3-10.	3.7	8
35	Multilabel statistical shape prior for image segmentation. IET Image Processing, 2016, 10, 710-716.	1.4	7
36	Quantification of myocardial function using tagged MR and cine MR images. International Journal of Cardiovascular Imaging, 2004, 20, 497-507.	0.7	6

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37	A New Random Forest Method for One-Class Classification. Lecture Notes in Computer Science, 2012, , 282-290.	1.0	6
38	Pattern Spotting in Historical Documents Using Convolutional Models. , 2019, , .		6
39	Measuring Myocardial Deformations in Tagged MR Image Sequences Using Informational Non-rigid Registration. Lecture Notes in Computer Science, 2003, , 162-172.	1.0	6
40	A Geometrically-Constrained Deep Network For Ct Image Segmentation. , 2021, , .		5
41	Segmentation-Based vs. Regression-Based Biomarker Estimation: A Case Study of Fetus Head Circumference Assessment from Ultrasound Images. Journal of Imaging, 2022, 8, 23.	1.7	5
42	Shape prior based image segmentation using manifold learning. , 2015, , .		4
43	A Top-Down Approach for Automatic Dropper Extraction in Catenary Scenes. Lecture Notes in Computer Science, 2009, , 225-232.	1.0	4
44	Measuring myocardial deformations from MR data using information-theoretic nonrigid registration. International Congress Series, 2003, 1256, 1159-1164.	0.2	3
45	Automatic lung tumor segmentation on PET images based on random walks and tumor growth model. , 2014, , .		3
46	Segmentation-free pattern spotting in historical document images. , 2015, , .		3
47	Region Proposal for Pattern Spotting in Historical Document Images. , 2016, , .		3
48	Predicting lung tumor evolution during radiotherapy from PET images using a patient specific model. , 2013, , .		2
49	Linear Discriminant Analysis for Zero-shot Learning Image Retrieval. , 2015, , .		2
50	Characterization of Endomicroscopic Images of the Distal Lung for Computer-Aided Diagnosis. Lecture Notes in Computer Science, 2009, , 994-1003.	1.0	2
51	Investigating CoordConv for Fully and Weakly Supervised Medical Image Segmentation. , 2020, , .		2
52	Detection of pathological condition in distal lung images. , 2012, , .		1
53	Using a Priori Knowledge to Classify in Vivo Images of the Lung. Lecture Notes in Computer Science, 2010, , 207-212.	1.0	1
54	PRUNING TREES IN RANDOM FORESTS FOR MINIMIZING NON DETECTION IN MEDICAL IMAGING. , 2016, , 89-107.		0

#	Article	IF	Citations
55	Robust Feature Selection to Predict Lung Tumor Recurrence. Lecture Notes in Computational Vision and Biomechanics, 2015, , 103-112.	0.5	0
56	Enforcing Geometrical Priors in Deep Networks for Semantic Segmentation Applied to Radiotherapy Planning. Journal of Mathematical Imaging and Vision, 0, , .	0.8	0