Caroline Petitjean

List of Publications by Year
in descending order

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

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

#	Article	IF	Citations
1	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
2	A Geometrically-Constrained Deep Network For Ct Image Segmentation. , 2021, , .		5
3	High-level prior-based loss functions for medical image segmentation: A survey. Computer Vision and Image Understanding, 2021, 210, 103248.	3.0	43
4	BB-UNet: U-Net With Bounding Box Prior. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1189-1198.	7.3	35
5	Improving pattern spotting in historical documents using feature pyramid networks. Pattern Recognition Letters, 2020, 131, 398-404.	2.6	10
6	Investigating CoordConv for Fully and Weakly Supervised Medical Image Segmentation. , 2020, , .		2
7	Pattern Spotting in Historical Documents Using Convolutional Models. , 2019, , .		6
8	Multiple instance learning for histopathological breast cancer image classification. Expert Systems With Applications, 2019, 117, 103-111.	4.4	262
9	Medical Image Synthesis with Deep Convolutional Adversarial Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 2720-2730.	2.5	392
10	Automatic classification of human sperm head morphology. Computers in Biology and Medicine, 2017, 84, 205-216.	3.9	40
11	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
12	Fully automated esophagus segmentation with a hierarchical deep learning approach. , 2017, 2017, 503-506.		13
13	Pattern localization in historical document images via template matching. , 2016, , .		9
14	New public dataset for spotting patterns in medieval document images. Journal of Electronic Imaging, 2016, 26, 011010.	0.5	10
15	Region Proposal for Pattern Spotting in Historical Document Images. , 2016, , .		3
16	Multilabel statistical shape prior for image segmentation. IET Image Processing, 2016, 10, 710-716.	1.4	7
17	Segmentation of lymphoma tumor in PET images using cellular automata: A preliminary study. Irbm, 2016, 37, 3-10.	3.7	8
18	A scalable pattern spotting system for historical documents. Pattern Recognition, 2016, 54, 149-161.	5.1	23

#	Article	IF	Citations
19	Extreme learning machine for out-of-sample extension in Laplacian eigenmaps. Pattern Recognition Letters, 2016, 74, 68-73.	2.6	9
20	PRUNING TREES IN RANDOM FORESTS FOR MINIMIZING NON DETECTION IN MEDICAL IMAGING. , 2016, , 89-107.		0
21	A Dataset for Breast Cancer Histopathological Image Classification. IEEE Transactions on Biomedical Engineering, 2016, 63, 1455-1462.	2.5	938
22	Shape prior based image segmentation using manifold learning. , 2015, , .		4
23	Segmentation-free pattern spotting in historical document images. , 2015, , .		3
24	Joint tumor growth prediction and tumor segmentation on therapeutic follow-up PET images. Medical Image Analysis, 2015, 23, 84-91.	7.0	25
25	Robust feature selection to predict tumor treatment outcome. Artificial Intelligence in Medicine, 2015, 64, 195-204.	3.8	24
26	Right ventricle segmentation from cardiac MRI: A collation study. Medical Image Analysis, 2015, 19, 187-202.	7.0	189
27	Linear Discriminant Analysis for Zero-shot Learning Image Retrieval. , 2015, , .		2
28	Robust Feature Selection to Predict Lung Tumor Recurrence. Lecture Notes in Computational Vision and Biomechanics, 2015, , 103-112.	0.5	0
29	Automatic lung tumor segmentation on PET images based on random walks and tumor growth model. , 2014, , .		3
30	3D automated lymphoma segmentation in PET images based on cellular automata. , 2014, , .		8
31	Scattering features for lung cancer detection in fibered confocal fluorescence microscopy images. Artificial Intelligence in Medicine, 2014, 61, 105-118.	3.8	23
32	Prediction of Lung Tumor Evolution During Radiotherapy in Individual Patients With PET. IEEE Transactions on Medical Imaging, 2014, 33, 995-1003.	5.4	34
33	Graph cut segmentation with a statistical shape model in cardiac MRI. Computer Vision and Image Understanding, 2013, 117, 1027-1035.	3.0	74
34	One class random forests. Pattern Recognition, 2013, 46, 3490-3506.	5.1	116
35	Predicting lung tumor evolution during radiotherapy from PET images using a patient specific model. , 2013, , .		2
36	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

#	Article	IF	Citations
37	A New Random Forest Method for One-Class Classification. Lecture Notes in Computer Science, 2012, , 282-290.	1.0	6
38	Detection of pathological condition in distal lung images. , 2012, , .		1
39	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
40	Cardiac MRI Assessment of Right Ventricular Function in Acquired Heart Disease. Academic Radiology, 2012, 19, 991-1002.	1.3	70
41	An SVM-based distal lung image classification using texture descriptors. Computerized Medical Imaging and Graphics, 2012, 36, 264-270.	3.5	20
42	A Random Forest Based Approach for One Class Classification in Medical Imaging. Lecture Notes in Computer Science, 2012, , 250-257.	1.0	15
43	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
44	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
45	A review of segmentation methods in short axis cardiac MR images. Medical Image Analysis, 2011, 15, 169-184.	7.0	602
46	Using a Priori Knowledge to Classify in Vivo Images of the Lung. Lecture Notes in Computer Science, 2010, , 207-212.	1.0	1
47	A Top-Down Approach for Automatic Dropper Extraction in Catenary Scenes. Lecture Notes in Computer Science, 2009, , 225-232.	1.0	4
48	Characterization of Endomicroscopic Images of the Distal Lung for Computer-Aided Diagnosis. Lecture Notes in Computer Science, 2009, , 994-1003.	1.0	2
49	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
50	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
51	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
52	Quantification of myocardial function using tagged MR and cine MR images. International Journal of Cardiovascular Imaging, 2004, 20, 497-507.	0.7	6
53	Building and using a statistical 3D motion atlas for analyzing myocardial contraction in MRI. , 2004, , .		14
54	Measuring myocardial deformations from MR data using information-theoretic nonrigid registration. International Congress Series, 2003, 1256, 1159-1164.	0.2	3

#	Article	IF	Citations
55	Measuring Myocardial Deformations in Tagged MR Image Sequences Using Informational Non-rigid Registration. Lecture Notes in Computer Science, 2003, , 162-172.	1.0	6
56	Enforcing Geometrical Priors in Deep Networks for Semantic Segmentation Applied to Radiotherapy Planning. Journal of Mathematical Imaging and Vision, 0, , .	0.8	0