Pierre-Marc Jodoin

List of Publications by Year
in descending order

48	5,885	279487 23	233125 45
papers	citations	h-index	g-index

51	51	51	6803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brain tumor segmentation with Deep Neural Networks. Medical Image Analysis, 2017, 35, 18-31.	7.0	2,234
2	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. IEEE Transactions on Medical Imaging, 2018, 37, 2514-2525.	5.4	926
3	Non-local Deep Features for Salient Object Detection. , 2017, , .		387
4	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. Medical Image Analysis, 2017, 35, 250-269.	7.0	360
5	Deep Learning for Segmentation Using an Open Large-Scale Dataset in 2D Echocardiography. IEEE Transactions on Medical Imaging, 2019, 38, 2198-2210.	5.4	292
6	Interactive deep learning method for segmenting moving objects. Pattern Recognition Letters, 2017, 96, 66-75.	2.6	244
7	Convolutional Neural Network With Shape Prior Applied to Cardiac MRI Segmentation. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1119-1128.	3.9	127
8	A test-retest study on Parkinson's PPMI dataset yields statistically significant white matter fascicles. NeuroImage: Clinical, 2017, 16, 222-233.	1.4	119
9	Video Anomaly Identification. IEEE Signal Processing Magazine, 2010, 27, 18-33.	4.6	112
10	Foreground-Adaptive Background Subtraction. IEEE Signal Processing Letters, 2009, 16, 390-393.	2.1	107
11	Standardized Evaluation System for Left Ventricular Segmentation Algorithms in 3D Echocardiography. IEEE Transactions on Medical Imaging, 2016, 35, 967-977.	5.4	82
12	A Novel Video Dataset for Change Detection Benchmarking. IEEE Transactions on Image Processing, 2014, 23, 4663-4679.	6.0	73
13	Cardiac Segmentation With Strong Anatomical Guarantees. IEEE Transactions on Medical Imaging, 2020, 39, 3703-3713.	5.4	72
14	Free Water in White Matter Differentiates MCI and AD From Control Subjects. Frontiers in Aging Neuroscience, 2019, 11, 270.	1.7	57
15	Within-brain classification for brain tumor segmentation. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 777-788.	1.7	56
16	Perspective-SIFT: An efficient tool for low-altitude remote sensing image registration. Signal Processing, 2013, 93, 3088-3110.	2.1	54
17	Abnormality detection using low-level co-occurring events. Pattern Recognition Letters, 2011, 32, 423-431.	2.6	50
18	Extensive Benchmark and Survey of Modeling Methods for Scene Background Initialization. IEEE Transactions on Image Processing, 2017, 26, 5244-5256.	6.0	50

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19	3D segmentation of abdominal aorta from CT-scan and MR images. Computerized Medical Imaging and Graphics, 2012, 36, 294-303.	3.5	45
20	ProstAttention-Net: A deep attention model for prostate cancer segmentation by aggressiveness in MRI scans. Medical Image Analysis, 2022, 77, 102347.	7.0	44
21	Tractography and machine learning: Current state and open challenges. Magnetic Resonance Imaging, 2019, 64, 37-48.	1.0	41
22	A new compression format for fiber tracking datasets. NeuroImage, 2015, 109, 73-83.	2.1	32
23	Activity Based Matching in Distributed Camera Networks. IEEE Transactions on Image Processing, 2010, 19, 2595-2613.	6.0	30
24	Behavior Subtraction. IEEE Transactions on Image Processing, 2012, 21, 4244-4255.	6.0	28
25	Cardiac MRI Segmentation with Strong Anatomical Guarantees. Lecture Notes in Computer Science, 2019, , 632-640.	1.0	24
26	Segmentation Framework Based on Label Field Fusion. IEEE Transactions on Image Processing, 2007, 16, 2535-2550.	6.0	23
27	LU-Net: A Multistage Attention Network to Improve the Robustness of Segmentation of Left Ventricular Structures in 2-D Echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2519-2530.	1.7	23
28	Filtering in tractography using autoencoders (FINTA). Medical Image Analysis, 2021, 72, 102126.	7.0	23
29	Generative Adversarial Networks in Cardiology. Canadian Journal of Cardiology, 2022, 38, 196-203.	0.8	21
30	Optical-flow based on an edge-avoidance procedure. Computer Vision and Image Understanding, 2009, 113, 511-531.	3.0	14
31	Graph cut-based method for segmenting the left ventricle from MRI or echocardiographic images. Computerized Medical Imaging and Graphics, 2017, 58, 1-12.	3.5	13
32	Improving pedestrian detection using motion-guided filtering. Pattern Recognition Letters, 2017, 96, 106-112.	2.6	12
33	RU-Net: A refining segmentation network for 2D echocardiography. , 2019, , .		12
34	Privacy-Net: An Adversarial Approach for Identity-Obfuscated Segmentation of Medical Images. IEEE Transactions on Medical Imaging, 2021, 40, 1737-1749.	5.4	11
35	The Representation Theory of Neural Networks. Mathematics, 2021, 9, 3216.	1.1	10
36	High-speed transition patterns for video projection, 3D reconstruction, and copyright protection. Pattern Recognition, 2015, 48, 720-731.	5.1	9

#	Article	IF	Citations
37	Novel Graph Cuts Method for Multi-Frame Super-Resolution. IEEE Signal Processing Letters, 2015, 22, 2279-2283.	2.1	8
38	Track-to-Learn: A general framework for tractography with deep reinforcement learning. Medical Image Analysis, 2021, 72, 102093.	7.0	8
39	Cortical thickness analysis in operculo-insular epilepsy. NeuroImage: Clinical, 2018, 19, 727-733.	1.4	7
40	Automatic classification of tissues on pelvic MRI based on relaxation times and support vector machine. PLoS ONE, 2019, 14, e0211944.	1.1	7
41	CBDF: Compressed Binary Discriminative Feature. Neurocomputing, 2016, 184, 43-54.	3.5	6
42	Deep Learning Applied to Multi-Structure Segmentation in 2D Echocardiography: A Preliminary Investigation of the Required Database Size. , 2018, , .		6
43	Left-Ventricle Segmentation of SPECT Images of Rats. IEEE Transactions on Biomedical Engineering, 2015, 62, 2260-2268.	2.5	5
44	Cameraâ€“projector matching using unstructured video. Machine Vision and Applications, 2012, 23, 887-902.	1.7	3
45	Image Multidistortion Estimation. IEEE Transactions on Image Processing, 2011, 20, 3442-3454.	6.0	1
46	Deep Learning Based Cardiac MRI Segmentation: Do We Need Experts?. Algorithms, 2021, 14, 212.	1.2	1
47	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. , 0, .		1
48	Activity Retrieval in Large Surveillance Videos. Academic Press Library in Signal Processing, 2014, 4, 535-559.	0.8	0