

Gustavo Carneiro

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137 papers	3,788 citations	29 h-index	59 g-index
161 ext. papers	4,870 ext. citations	4.3 avg, IF	6.18 L-index

#	Paper	IF	Citations
137	Convolutional Nets Versus Vision Transformers for Diabetic Foot Ulcer Classification. <i>Lecture Notes in Computer Science</i> , 2022 , 21-29	0.9	3
136	Validation and algorithmic audit of a deep learning system for the detection of proximal femoral fractures in patients in the emergency department: a diagnostic accuracy study.. <i>The Lancet Digital Health</i> , 2022 ,	14.4	2
135	Artificial intelligence for the diagnosis of lymph node metastases in patients with abdominopelvic malignancy: A systematic review and meta-analysis. <i>Artificial Intelligence in Medicine</i> , 2021 , 113, 102022	7.4	5
134	Sensing in the presence of strong noise by deep learning of dynamic multimode fiber interference. <i>Photonics Research</i> , 2021 , 9, B109	6	8
133	Arthroscope Localization in 3D Ultrasound Volumes Using Weakly Supervised Deep Learning. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6828	2.6	
132	Visual Localisation for Knee Arthroscopy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 2137-2145	3.9	1
131	LOW: Training deep neural networks by learning optimal sample weights. <i>Pattern Recognition</i> , 2021 , 110, 107585	7.7	6
130	Identifying protein subcellular localisation in scientific literature using bidirectional deep recurrent neural network. <i>Scientific Reports</i> , 2021 , 11, 1696	4.9	
129	A Hierarchical Multi-task Approach to Gastrointestinal Image Analysis. <i>Lecture Notes in Computer Science</i> , 2021 , 275-282	0.9	1
128	Double Encoder-Decoder Networks for Gastrointestinal Polyp Segmentation. <i>Lecture Notes in Computer Science</i> , 2021 , 293-307	0.9	3
127	Self-Supervised Lesion Change Detection and Localisation in Longitudinal Multiple Sclerosis Brain Imaging. <i>Lecture Notes in Computer Science</i> , 2021 , 670-680	0.9	
126	3D Semantic Mapping from Arthroscopy Using Out-of-Distribution Pose and Depth and In-Distribution Segmentation Training. <i>Lecture Notes in Computer Science</i> , 2021 , 383-393	0.9	2
125	Augmentation Network for Generalised Zero-Shot Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 442-458	0.9	
124	Deep learning to diagnose pouch of Douglas obliteration with ultrasound sliding sign.. <i>Reproduction and Fertility</i> , 2021 , 2, 236-243	1.1	1
123	Artificial intelligence for pre-operative lymph node staging in colorectal cancer: a systematic review and meta-analysis. <i>BMC Cancer</i> , 2021 , 21, 1058	4.8	9
122	Constrained Contrastive Distribution Learning for Unsupervised Anomaly Detection and Localisation in Medical Images. <i>Lecture Notes in Computer Science</i> , 2021 , 128-140	0.9	6
121	Self-supervised Mean Teacher for Semi-supervised Chest X-Ray Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 426-436	0.9	3

120	Few-Shot Microscopy Image Cell Segmentation. <i>Lecture Notes in Computer Science</i> , 2021 , 139-154	0.9	4
119	Weakly-supervised Video Anomaly Detection with Robust Temporal Feature Magnitude Learning 2021 ,		21
118	Semi-Supervised Multi-Domain Multi-Task Training for Metastatic Colon Lymph Node Diagnosis from Abdominal CT 2020 ,		1
117	Probabilistic Object Detection: Definition and Evaluation 2020 ,		21
116	Unsupervised Task Design to Meta-Train Medical Image Classifiers 2020 ,		2
115	Uncertainty in Model-Agnostic Meta-Learning using Variational Inference 2020 ,		6
114	Computer-aided diagnosis for characterization of colorectal lesions: comprehensive software that includes differentiation of serrated lesions. <i>Gastrointestinal Endoscopy</i> , 2020 , 92, 891-899	5.2	17
113	Special Issue on Deep Learning for Robotic Vision. <i>International Journal of Computer Vision</i> , 2020 , 128, 1160-1161	10.6	
112	Automatic Segmentation of Multiple Structures in Knee Arthroscopy Using Deep Learning. <i>IEEE Access</i> , 2020 , 8, 51853-51861	3.5	10
111	Deep learning uncertainty and confidence calibration for the five-class polyp classification from colonoscopy. <i>Medical Image Analysis</i> , 2020 , 62, 101653	15.4	15
110	Deep Learning for US Image Quality Assessment Based on Femoral Cartilage Boundary Detection in Autonomous Knee Arthroscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 2543-2552	3.2	2
109	A Survey on Deep Learning with Noisy Labels: How to train your model when you cannot trust on the annotations? 2020 ,		5
108	. <i>IEEE Access</i> , 2020 , 8, 223961-223975	3.5	4
107	Hidden Stratification Causes Clinically Meaningful Failures in Machine Learning for Medical Imaging 2020 , 2020, 151-159		62
106	Self-supervised Depth Estimation to Regularise Semantic Segmentation in Knee Arthroscopy. <i>Lecture Notes in Computer Science</i> , 2020 , 594-603	0.9	5
105	Few-Shot Anomaly Detection for Polyp Frames from Colonoscopy. <i>Lecture Notes in Computer Science</i> , 2020 , 274-284	0.9	8
104	Region Proposals for Saliency Map Refinement for Weakly-Supervised Disease Localisation and Classification. <i>Lecture Notes in Computer Science</i> , 2020 , 539-549	0.9	7
103	Siam-U-Net: encoder-decoder siamese network for knee cartilage tracking in ultrasound images. <i>Medical Image Analysis</i> , 2020 , 60, 101631	15.4	27

102	Automatic Quality Assessment of Transperineal Ultrasound Images of the Male Pelvic Region, Using Deep Learning. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 445-454	3.5	6
101	Deep Learning-Based Femoral Cartilage Automatic Segmentation in Ultrasound Imaging for Guidance in Robotic Knee Arthroscopy. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 422-435	3.5	14
100	Self-Supervised Monocular Trained Depth Estimation Using Self-Attention and Discrete Disparity Volume 2020 ,		45
99	Photoshopping Colonoscopy Video Frames 2020 ,		6
98	SAFeTy, Effectiveness of care and Resource use among Australian Hospitals (SAFER Hospitals): a protocol for a population-wide cohort study of outcomes of hospital care. <i>BMJ Open</i> , 2020 , 10, e035446 ³		0
97	Saliency Improvement in Feature-Poor Surgical Environments Using Local Laplacian of Specified Histograms. <i>IEEE Access</i> , 2020 , 8, 213378-213388	3.5	1
96	Approximate Fisher Information Matrix to Characterize the Training of Deep Neural Networks. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 15-26	13.3	6
95	One Shot Segmentation: Unifying Rigid Detection and Non-Rigid Segmentation Using Elastic Regularization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 3054-3070	13.3	6
94	Producing Radiologist-Quality Reports for Interpretable Deep Learning. 2019 ,		9
93	End-To-End Diagnosis And Segmentation Learning From Cardiac Magnetic Resonance Imaging 2019 ,		13
92	Pre and post-hoc diagnosis and interpretation of malignancy from breast DCE-MRI. <i>Medical Image Analysis</i> , 2019 , 58, 101562	15.4	11
91	Cardiovascular Diseases 2019 , 167-185		3
90	Model Agnostic Saliency For Weakly Supervised Lesion Detection From Breast DCE-MRI 2019 ,		4
89	One-Stage Five-Class Polyp Detection and Classification 2019 ,		11
88	Deep Reinforcement Learning for Detecting Breast Lesions from DCE-MRI. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 163-178	1.1	0
87	Generalised Zero-Shot Learning with Domain Classification in a Joint Semantic and Visual Space 2019 ,		3
86	2019 ,		21
85	Bayesian Semantic Instance Segmentation in Open Set World. <i>Lecture Notes in Computer Science</i> , 2018 , 3-18	0.9	7

84	Multi-modal Cycle-Consistent Generalized Zero-Shot Learning. <i>Lecture Notes in Computer Science</i> , 2018 , 21-37	0.9	84
83	Training Medical Image Analysis Systems like Radiologists. <i>Lecture Notes in Computer Science</i> , 2018 , 546-554	17	
82	Evaluation of Three Algorithms for the Segmentation of Overlapping Cervical Cells. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 441-450	7.2	61
81	Improving the performance of pedestrian detectors using convolutional learning. <i>Pattern Recognition</i> , 2017 , 61, 641-649	7.7	22
80	Combining deep learning and level set for the automated segmentation of the left ventricle of the heart from cardiac cine magnetic resonance. <i>Medical Image Analysis</i> , 2017 , 35, 159-171	15.4	202
79	A deep learning approach for the analysis of masses in mammograms with minimal user intervention. <i>Medical Image Analysis</i> , 2017 , 37, 114-128	15.4	175
78	Automatic Quantification of Tumour Hypoxia From Multi-Modal Microscopy Images Using Weakly-Supervised Learning Methods. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1405-1417	11.7	3
77	Precision Radiology: Predicting longevity using feature engineering and deep learning methods in a radiomics framework. <i>Scientific Reports</i> , 2017 , 7, 1648	4.9	86
76	Fully automated classification of mammograms using deep residual neural networks 2017 ,		29
75	A deep convolutional neural network module that promotes competition of multiple-size filters. <i>Pattern Recognition</i> , 2017 , 71, 94-105	7.7	21
74	Automated Analysis of Unregistered Multi-View Mammograms With Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 2355-2365	11.7	94
73	2017 ,		15
72	Deep Learning on Sparse Manifolds for Faster Object Segmentation. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 4978-4990	8.7	9
71	2017 ,		9
70	Smart Mining for Deep Metric Learning 2017 ,		102
69	Scaling CNNs for High Resolution Volumetric Reconstruction from a Single Image 2017 ,		17
68	Deep Learning Models for Classifying Mammogram Exams Containing Unregistered Multi-View Images and Segmentation Maps of Lesions 2017 , 321-339		11
67	Fully Automated Segmentation Using Distance Regularised Level Set and Deep-Structured Learning and Inference. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 197-224	1.1	3

66	Combining Deep Learning and Structured Prediction for Segmenting Masses in Mammograms. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 225-240	1.1	3
65	Review of Deep Learning Methods in Mammography, Cardiovascular, and Microscopy Image Analysis. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 11-32	1.1	17
64	Multi-channel Convolutional Neural Network Ensemble for Pedestrian Detection. <i>Lecture Notes in Computer Science</i> , 2017 , 122-130	0.9	3
63	Deep Reinforcement Learning for Active Breast Lesion Detection from DCE-MRI. <i>Lecture Notes in Computer Science</i> , 2017 , 665-673	0.9	37
62	Unsupervised CNN for Single View Depth Estimation: Geometry to the Rescue. <i>Lecture Notes in Computer Science</i> , 2016 , 740-756	0.9	335
61	The Automated Learning of Deep Features for Breast Mass Classification from Mammograms. <i>Lecture Notes in Computer Science</i> , 2016 , 106-114	0.9	47
60	On the importance of normalisation layers in deep learning with piecewise linear activation units 2016 ,		13
59	CRISTAL: Adapting Workplace Training to the Real World Context with an Intelligent Simulator for Radiology Trainees. <i>Lecture Notes in Computer Science</i> , 2016 , 430-435	0.9	2
58	Learning Local Image Descriptors with Deep Siamese and Triplet Convolutional Networks by Minimizing Global Loss Functions 2016 ,		11
57	Multi-atlas segmentation using manifold learning with deep belief networks 2016 ,		2
56	Unregistered Multiview Mammogram Analysis with Pre-trained Deep Learning Models. <i>Lecture Notes in Computer Science</i> , 2015 , 652-660	0.9	84
55	Deep structured learning for mass segmentation from mammograms 2015 ,		29
54	Weakly-Supervised Structured Output Learning with Flexible and Latent Graphs Using High-Order Loss Functions 2015 ,		4
53	Robust Optimization for Deep Regression 2015 ,		87
52	The use of deep learning features in a hierarchical classifier learned with the minimization of a non-greedy loss function that delays gratification 2015 ,		3
51	Tree RE-weighted belief propagation using deep learning potentials for mass segmentation from mammograms 2015 ,		15
50	3-D Modeling from Concept Sketches of Human Characters with Minimal User Interaction 2015 ,		1
49	Automated Mass Detection in Mammograms Using Cascaded Deep Learning and Random Forests 2015 ,		97

48	Lung segmentation in chest radiographs using distance regularized level set and deep-structured learning and inference 2015 ,		11
47	Automatic detection of necrosis, normoxia and hypoxia in tumors from multimodal cytological images 2015 ,		3
46	An improved joint optimization of multiple level set functions for the segmentation of overlapping cervical cells. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 1261-72	8.7	111
45	Deep Learning and Structured Prediction for the Segmentation of Mass in Mammograms. <i>Lecture Notes in Computer Science</i> , 2015 , 605-612	0.9	54
44	Artistic Image Analysis Using the Composition of Human Figures. <i>Lecture Notes in Computer Science</i> , 2015 , 117-132	0.9	
43	Flexible and Latent Structured Output Learning. <i>Lecture Notes in Computer Science</i> , 2015 , 220-228	0.9	1
42	2014 , 52, 158-165		
41	Non-rigid Segmentation Using Sparse Low Dimensional Manifolds and Deep Belief Networks 2014 ,		5
40	Fully Automated Non-rigid Segmentation with Distance Regularized Level Set Evolution Initialized and Constrained by Deep-Structured Inference 2014 ,		12
39	Artistic image analysis using graph-based learning approaches. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 3168-78	8.7	3
38	Fuzzy clustering based encoding for Visual Object Classification 2013 ,		1
37	Combining multiple dynamic models and deep learning architectures for tracking the left ventricle endocardium in ultrasound data. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 2592-607	13.3	83
36	Left ventricle segmentation from cardiac MRI combining level set methods with deep belief networks 2013 ,		26
35	Top-Down Segmentation of Non-rigid Visual Objects Using Derivative-Based Search on Sparse Manifolds 2013 ,		3
34	Automated nucleus and cytoplasm segmentation of overlapping cervical cells. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 452-60	0.9	39
33	The segmentation of the left ventricle of the heart from ultrasound data using deep learning architectures and derivative-based search methods. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 968-82	8.7	127
32	The use of on-line co-training to reduce the training set size in pattern recognition methods: Application to left ventricle segmentation in ultrasound 2012 ,		6
31	An ns-3 architecture for simulating joint radio resource management strategies in interconnected WLAN and UMTS networks. <i>Transactions on Emerging Telecommunications Technologies</i> , 2012 , 23, 537-549	1.9	1

30	Transparent and scalable terminal mobility for vehicular networks. <i>Computer Networks</i> , 2012 , 56, 577-593	3.4	1
29	Artistic Image Classification: An Analysis on the PRINTART Database. <i>Lecture Notes in Computer Science</i> , 2012 , 143-157	0.9	42
28	In Defence of RANSAC for Outlier Rejection in Deformable Registration. <i>Lecture Notes in Computer Science</i> , 2012 , 274-287	0.9	26
27	Fast prototyping of network protocols through ns-3 simulation model reuse. <i>Simulation Modelling Practice and Theory</i> , 2011 , 19, 2063-2075	3.9	12
26	Incremental on-line semi-supervised learning for segmenting the left ventricle of the heart from ultrasound data 2011 ,		6
25	Time and order estimation of paintings based on visual features and expert priors 2011 ,		4
24	Graph-based methods for the automatic annotation and retrieval of art prints 2011 ,		8
23	Multiple dynamic models for tracking the left ventricle of the heart from ultrasound data using particle filters and deep learning architectures 2010 ,		15
22	Robust left ventricle segmentation from ultrasound data using deep neural networks and efficient search methods 2010 ,		18
21	Efficient search methods and deep belief networks with particle filtering for non-rigid tracking: Application to lip tracking 2010 ,		1
20	The automatic design of feature spaces for local image descriptors using an ensemble of non-linear feature extractors 2010 ,		4
19	The Fusion of Deep Learning Architectures and Particle Filtering Applied to Lip Tracking 2010 ,		2
18	WiMetroNet A Scalable Wireless Network for Metropolitan Transports 2010 ,		2
17	FlowMonitor - a network monitoring framework for the Network Simulator 3 (NS-3) 2009 ,		48
16	Fetal biometry: a comparison between experienced sonographers and automated measurements. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2009 , 22, 43-50	2	14
15	Minimum Bayes error features for visual recognition. <i>Image and Vision Computing</i> , 2009 , 27, 131-140	3.7	1
14	The quantitative characterization of the distinctiveness and robustness of local image descriptors. <i>Image and Vision Computing</i> , 2009 , 27, 1143-1156	3.7	7
13	Fast and robust 3-D MRI brain structure segmentation. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 575-583		10

12	Detection and measurement of fetal anatomies from ultrasound images using a constrained probabilistic boosting tree. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1342-55	11.7	125
11	Semantic-based indexing of fetal anatomies from 3-D ultrasound data using global/semi-local context and sequential sampling 2008 ,		18
10	Combining MBMS and IEEE 802.21 for on-the-road emergency 2008 ,		2
9	A discriminative model-constrained graph cuts approach to fully automated pediatric brain tumor segmentation in 3-D MRI. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 67-75	0.9	42
8	QoS abstraction layer in 4G access networks. <i>Telecommunication Systems</i> , 2007 , 35, 55-65	2.3	1
7	Flexible spatial configuration of local image features. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 2089-104	13.3	37
6	Supervised learning of semantic classes for image annotation and retrieval. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 394-410	13.3	574
5	Automatic fetal measurements in ultrasound using constrained probabilistic boosting tree 2007 , 10, 571-9		10
4	Sparse Flexible Models of Local Features. <i>Lecture Notes in Computer Science</i> , 2006 , 29-43	0.9	17
3	A database centric view of semantic image annotation and retrieval 2005 ,		32
2	Phase-Based Local Features. <i>Lecture Notes in Computer Science</i> , 2002 , 282-296	0.9	26
1	What Is the Role of Independence for Visual Recognition?. <i>Lecture Notes in Computer Science</i> , 2002 , 297-311	3.1	4