Oscar Deniz

List of Publications by Year
in descending order

81 papers	3,991 citations	430442 18 h-index	123241 61 g-index
85 all docs	85 docs citations	85 times ranked	5581 citing authors

#	Article	IF	Citations
1	Diagnostic Assessment of Deep Learning Algorithms for Detection of Lymph Node Metastases in Women With Breast Cancer. JAMA - Journal of the American Medical Association, 2017, 318, 2199.	3.8	2,003
2	Face recognition using Histograms of Oriented Gradients. Pattern Recognition Letters, 2011, 32, 1598-1603.	2.6	496
3	ENCARA2: Real-time detection of multiple faces at different resolutions in video streams. Journal of Visual Communication and Image Representation, 2007, 18, 130-140.	1.7	154
4	Face recognition using independent component analysis and support vector machines. Pattern Recognition Letters, 2003, 24, 2153-2157.	2.6	147
5	Glomerulosclerosis identification in whole slide images using semantic segmentation. Computer Methods and Programs in Biomedicine, 2020, 184, 105273.	2.6	100
6	Fight Recognition in Video Using Hough Forests and 2D Convolutional Neural Network. IEEE Transactions on Image Processing, 2018, 27, 4787-4797.	6.0	90
7	Automated Diatom Classification (Part B): A Deep Learning Approach. Applied Sciences (Switzerland), 2017, 7, 460.	1.3	80
8	Semantic versus instance segmentation in microscopic algae detection. Engineering Applications of Artificial Intelligence, 2020, 87, 103271.	4.3	67
9	Automated pollen identification using microscopic imaging and texture analysis. Micron, 2015, 68, 36-46.	1.1	66
10	A comparison of face and facial feature detectors based on the Viola–Jones general object detection framework. Machine Vision and Applications, 2011, 22, 481.	1.7	59
11	Autofocus evaluation for brightfield microscopy pathology. Journal of Biomedical Optics, 2012, 17, 036008.	1.4	54
12	New Trends of Emerging Technologies in Digital Pathology. Pathobiology, 2016, 83, 61-69.	1.9	52
13	Automated Diatom Classification (Part A): Handcrafted Feature Approaches. Applied Sciences (Switzerland), 2017, 7, 753.	1.3	48
14	Breast density classification to reduce false positives in CADe systems. Computer Methods and Programs in Biomedicine, 2014, 113, 569-584.	2.6	29
15	ViolenceNet: Dense Multi-Head Self-Attention with Bidirectional Convolutional LSTM for Detecting Violence. Electronics (Switzerland), 2021, 10, 1601.	1.8	26
16	Gun and Knife Detection Based on Faster R-CNN for Video Surveillance. Lecture Notes in Computer Science, 2019, , 441-452.	1.0	26
17	Data for glomeruli characterization in histopathological images. Data in Brief, 2020, 29, 105314.	0.5	21
18	Pollen segmentation and feature evaluation for automatic classification in bright-field microscopy. Computers and Electronics in Agriculture, 2015, 110, 56-69.	3.7	20

#	Article	IF	Citations
19	Handgun Detection Using Combined Human Pose and Weapon Appearance. IEEE Access, 2021, 9, 123815-123826.	2.6	20
20	A parallel solution for high resolution histological image analysis. Computer Methods and Programs in Biomedicine, 2012, 108, 388-401.	2.6	18
21	BONSEYES. , 2017, , .		18
22	Quality evaluation of microscopy and scanned histological images for diagnostic purposes. Micron, 2012, 43, 334-343.	1.1	17
23	An automated system for whole microscopic image acquisition and analysis. Microscopy Research and Technique, 2014, 77, 697-713.	1.2	17
24	Eyes of Things. Sensors, 2017, 17, 1173.	2.1	17
25	Automatic Handgun Detection with Deep Learning in Video Surveillance Images. Applied Sciences (Switzerland), 2021, 11, 6085.	1.3	17
26	Robustness to adversarial examples can be improved with overfitting. International Journal of Machine Learning and Cybernetics, 2020, 11, 935-944.	2.3	16
27	Fast and accurate global motion compensation. Pattern Recognition, 2011, 44, 2887-2901.	5.1	15
28	Spatio-temporal elastic cuboid trajectories for efficient fight recognition using Hough forests. Machine Vision and Applications, 2018, 29, 207-217.	1.7	15
29	Influence of Texture and Colour in Breast TMA Classification. PLoS ONE, 2015, 10, e0141556.	1.1	13
30	Optimum web viewer application for DICOM whole slide image visualization in anatomical pathology. Computer Methods and Programs in Biomedicine, 2019, 179, 104983.	2.6	13
31	Automatic breast parenchymal density classification integrated into a CADe system. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 309-318.	1.7	12
32	TMA Vessel Segmentation Based on Color and Morphological Features: Application to Angiogenesis Research. Scientific World Journal, The, 2013, 2013, 1-11.	0.8	12
33	Automatic quantification of IHC stain in breast TMA using colour analysis. Computerized Medical Imaging and Graphics, 2017, 61, 14-27.	3.5	12
34	Deep autoencoder for false positive reduction in handgun detection. Neural Computing and Applications, 2021, 33, 5885-5895.	3.2	12
35	Smart Doll: Emotion Recognition Using Embedded Deep Learning. Symmetry, 2018, 10, 387.	1.1	11
36	Exploring the Use of Local Binary Patterns as Focus Measure. , 2008, , .		10

#	Article	IF	Citations
37	Automatic Handling of Tissue Microarray Cores in High-Dimensional Microscopy Images. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 999-1007.	3.9	10
38	Using human pose information for handgun detection. Neural Computing and Applications, 2021, 33, 17273-17286.	3.2	10
39	Low-cost oblique illumination: an image quality assessment. Journal of Biomedical Optics, 2018, 23, 1.	1.4	10
40	CASIMIRO: a robot head for human-computer interaction. , 0, , .		9
41	A Vision-Based Localization Algorithm for an Indoor Navigation App. , 2014, , .		9
42	Pulga, a tiny open-source MQTT broker for flexible and secure IoT deployments. , 2015, , .		9
43	Frequential versus spatial colour textons for breast TMA classification. Computerized Medical Imaging and Graphics, 2015, 42, 25-37.	3.5	9
44	Lights and pitfalls of convolutional neural networks for diatom identification. , 2018, , .		9
45	Computer vision based eyewear selector. Journal of Zhejiang University: Science C, 2010, 11, 79-91.	0.7	8
46	A geodesic deformable model for automatic segmentation of image sequences applied to radiation therapy. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 341-350.	1.7	8
47	Bagging Tree Classifier and Texture Features for Tumor Identification in Histological Images. Procedia Computer Science, 2016, 90, 99-106.	1.2	8
48	An engineering approach to sociable robots. Journal of Experimental and Theoretical Artificial Intelligence, 2007, 19, 285-306.	1.8	7
49	Colour model analysis for microscopic image processing. Diagnostic Pathology, 2008, 3, S18.	0.9	7
50	Automatic Museum Audio Guide. Sensors, 2020, 20, 779.	2.1	6
51	On the Relationship between Generalization and Robustness to Adversarial Examples. Symmetry, 2021, 13, 817.	1.1	6
52	Approaching Adversarial Example Classification with Chaos Theory. Entropy, 2020, 22, 1201.	1.1	5
53	Colour Model Analysis for Histopathology Image Processing. Lecture Notes in Computational Vision and Biomechanics, 2013, , 165-180.	0.5	5
54	Existing Approaches to Smart Parking: An Overview. Lecture Notes in Computer Science, 2017, , 63-74.	1.0	5

#	Article	IF	Citations
55	Evaluation of autofocus measures for microscopy images of biopsy and cytology. Proceedings of SPIE, 2011, , .	0.8	4
56	Multi-stained whole slide image alignment in digital pathology. Proceedings of SPIE, 2015, , .	0.8	4
57	Deep Learning Versus Classic Methods for Multi-taxon Diatom Segmentation. Lecture Notes in Computer Science, 2019, , 342-354.	1.0	4
58	Transition Hough forest for trajectory-based action recognition. , 2016, , .		3
59	Image quality metrics applied to digital pathology. Proceedings of SPIE, 2016, , .	0.8	3
60	Adversarial Examples are a Manifestation of the Fitting-Generalization Trade-off. Lecture Notes in Computer Science, 2019, , 569-580.	1.0	3
61	Weapon Detection for Particular Scenarios Using Deep Learning. Lecture Notes in Computer Science, 2019, , 371-382.	1.0	3
62	Image processing methods and architectures in diagnostic pathology.. Folia Histochemica Et Cytobiologica, 2010, 47, 691-7.	0.6	3
63	Diffeomorphic transforms for data augmentation of highly variable shape and texture objects. Computer Methods and Programs in Biomedicine, 2022, 219, 106775.	2.6	3
64	Sample Selection for Training Cascade Detectors. PLoS ONE, 2015, 10, e0133059.	1.1	2
65	Vision and Crowdsensing Technology for an Optimal Response in Physical-Security. Lecture Notes in Computer Science, 2019, , 15-26.	1.0	2
66	Segmentation Techniques. , 2020, , 135-149.		2
67	Who are you? [face recognition]. , 2004, , .		1
68	Face Recognition from a Tabula Rasa Perspective. , 0, , .		1
69	CADe System Integrated within the Electronic Health Record. BioMed Research International, 2013, 2013, 1-14.	0.9	1
70	Sainet: An Image Processing App for Assistance of Visually Impaired People in Social Interaction Scenarios. Lecture Notes in Computer Science, 2016, , 467-477.	1.0	1
71	Eyes of Things. , 2017, , .		1
72	Really natural adversarial examples. International Journal of Machine Learning and Cybernetics, 2022, 13, 1065-1077.	2.3	1

#	Article	IF	Citations
73	Becoming Visually Familiar. , 2007, , .		0
74	Three-dimensional organ modeling based on deformable surfaces applied to radio-oncology. Journal of Zhejiang University: Science C, 2010, 11, 407-417.	0.7	0
75	Learning to recognize gender using experience. , 2010, , .		0
76	The eyes of things project. , 2015, , .		0
77	Emotional Modeling in an Interactive Robotic Head. , 2009, , 1-8.		0
78	Soft Computing Techniques for Human-Computer Interaction. , 2010, , 30-44.		0
79	Breast Tissue Microarray Classification Based on Texture and Frequential Features. IFMBE Proceedings, 2014, , 750-753.	0.2	0
80	Diatom Feature Extraction and Classification. , 2020, , 151-164.		0
81	Lyapunov stability for detecting adversarial image examples. Chaos, Solitons and Fractals, 2022, 155, 111745.	2.5	0