JÃ³nathan Heras

List of Publications by Year
in descending order

58	898	759233	526287
papers	citations	12 h-index	27 g-index

60	60	60	933
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep Detection Models forÂMeasuring Epidermal Bladder Cells. Lecture Notes in Computer Science, 2022, , 131-142.	1.3	0
2	Combining Image Processing Techniques, OCR, andÂOMR forÂtheÂDigitization ofÂMusical Books. Lecture Notes in Computer Science, 2022, , 553-567.	1.3	1
3	SpheroidJ: An Open-Source Set of Tools for Spheroid Segmentation. Computer Methods and Programs in Biomedicine, 2021, 200, 105837.	4.7	14
4	Biomedical image classification made easier thanks to transfer and semi-supervised learning. Computer Methods and Programs in Biomedicine, 2021, 198, 105782.	4.7	21
5	UFOD: An AutoML framework for the construction, comparison, and combination of object detection models. Pattern Recognition Letters, 2021, 145, 135-140.	4.2	2
6	Applications of deep learning techniques for automated multiple sclerosis detection using magnetic resonance imaging: A review. Computers in Biology and Medicine, 2021, 136, 104697.	7.0	97
7	Optimizing the Simplicial-Map Neural Network Architecture. Journal of Imaging, 2021, 7, 173.	3.0	1
8	MotilityJ: An open-source tool for the classification and segmentation of bacteria on motility images. Computers in Biology and Medicine, 2021, 136, 104673.	7.0	9
9	Simplicial-Map Neural Networks Robust to Adversarial Examples. Mathematics, 2021, 9, 169.	2.2	3
10	Automatic Diagnosis of Schizophrenia in EEG Signals Using CNN-LSTM Models. Frontiers in Neuroinformatics, 2021, 15, 777977.	2.5	82
11	Transfer learning features for predicting aesthetics through a novel hybrid machine learning method. Neural Computing and Applications, 2020, 32, 5889-5900.	5.6	10
12	LabelStoma: A tool for stomata detection based on the YOLO algorithm. Computers and Electronics in Agriculture, 2020, 178, 105751.	7.7	27
13	FrImCla: A Framework for Image Classification Using Traditional and Transfer Learning Techniques. IEEE Access, 2020, 8, 53443-53455.	4.2	7
14	Jupyter Notebooks for Simplifying Transfer Learning. Lecture Notes in Computer Science, 2020, , 215-221.	1.3	0
15	The Benefits of Close-Domain Fine-Tuning for Table Detection in Document Images. Lecture Notes in Computer Science, 2020, , 199-215.	1.3	8
16	Google Colaboratory for Quantifying Stomata in Images. Lecture Notes in Computer Science, 2020, , 231-238.	1.3	1
17	CLoDSA: a tool for augmentation in classification, localization, detection, semantic segmentation and instance segmentation tasks. BMC Bioinformatics, 2019, 20, 323.	2.6	54
18	Monomial Resolutions for Efficient Computation of Simplicial Homology. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	The Effects of Adding Non-Compulsory Exercises to an Online Learning Tool on Student Performance and Code Copying. ACM Transactions on Computing Education, 2019, 19, 1-22.	3.5	4
20	Automatic characterisation of dye decolourisation in fungal strains using expert, traditional, and deep features. Soft Computing, 2019, 23, 12799-12812.	3.6	9
21	DeepClas4Bio: Connecting bioimaging tools with deep learning frameworks for image classification. Computers in Biology and Medicine, 2019, 108, 49-56.	7.0	12
22	Exploring the differences between low-stakes proctored and unproctored language testing using an Internet-based application. Computer Assisted Language Learning, 2019, 32, 483-509.	7.1	1
23	Towards Integrating ImageJ with Deep Biomedical Models. Advances in Intelligent Systems and Computing, 2019, , 334-338.	0.6	0
24	An On-Going Framework for Easily Experimenting with Deep Learning Models for Bioimaging Analysis. Advances in Intelligent Systems and Computing, 2019, , 330-333.	0.6	0
25	DecoFungi: a web application for automatic characterisation of dye decolorisation in fungal strains. BMC Bioinformatics, 2018, 19, 66.	2.6	3
26	Extending GelJ for interoperability: Filling the gap in the bioinformatics resources for population genetics analysis with dominant markers. Computer Methods and Programs in Biomedicine, 2017, 140, 69-76.	4.7	0
27	IJ-OpenCV: Combining ImageJ and OpenCV for processing images in biomedicine. Computers in Biology and Medicine, 2017, 84, 189-194.	7.0	36
28	Antibiogramj: A tool for analysing images from disk diffusion tests. Computer Methods and Programs in Biomedicine, 2017, 143, 159-169.	4.7	28
29	Proof Mining with Dependent Types. Lecture Notes in Computer Science, 2017, , 303-318.	1.3	4
30	SynapCountJ: A Validated Tool for Analyzing Synaptic Densities in Neurons. Communications in Computer and Information Science, 2017, , 41-55.	0.5	4
31	Spiral and Project-Based Learning with Peer Assessment in a Computer Science Project Management Course. Journal of Science Education and Technology, 2016, 25, 439-449.	3.9	26
32	A comparative analysis of the consistency and difference among online self-, peer-, external- and instructor-assessments: The competitive effect. Computers in Human Behavior, 2016, 60, 112-120.	8.5	17
33	WekaBioSimilarityâ€"Extending Weka with Resemblance Measures. Lecture Notes in Computer Science, 2016, , 89-98.	1.3	0
34	SynapCountJ: A Tool for Analyzing Synaptic Densities in Neurons. , 2016, , .		4
35	GelJ â€“ a tool for analyzing DNA fingerprint gel images. BMC Bioinformatics, 2015, 16, 270.	2.6	238
36	Surveying and benchmarking techniques to analyse DNA gel fingerprint images. Briefings in Bioinformatics, 2015, 17, bbv102.	6.5	4

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37	Modelling algebraic structures and morphisms in ACL2. Applicable Algebra in Engineering, Communications and Computing, 2015, 26, 277-303.	0.5	6
38	A survey of tools for analysing DNA fingerprints. Briefings in Bioinformatics, 2015, 17, 903-911.	6.5	11
39	Exploiting Parallelism in Coalgebraic Logic Programming. Electronic Notes in Theoretical Computer Science, 2014, 303, 121-148.	0.9	4
40	A Certified Reduction Strategy for Homological Image Processing. ACM Transactions on Computational Logic, 2014, 15, 1-23.	0.9	19
41	Recycling Proof Patterns in Coq: Case Studies. Mathematics in Computer Science, 2014, 8, 99-116.	0.4	10
42	Obtaining an ACL2 Specification from an Isabelle/HOL Theory. Lecture Notes in Computer Science, 2014, , 49-63.	1.3	0
43	Computing persistent homology within Coq/SSReflect. ACM Transactions on Computational Logic, 2013, 14, 1-16.	0.9	8
44	Proof-Pattern Recognition and Lemma Discovery in ACL2. Lecture Notes in Computer Science, 2013, , 389-406.	1.3	22
45	Verifying a Plaftorm for Digital Imaging: A Multi-tool Strategy. Lecture Notes in Computer Science, 2013, , 66-81.	1.3	2
46	Towards a Certified Computation of Homology Groups for Digital Images. Lecture Notes in Computer Science, 2012, , 49-57.	1.3	9
47	Mathematical knowledge management in algebraic topology. ACM Communications in Computer Algebra, 2012, 45, 236-237.	0.4	1
48	A Certified Module to Study Digital Images with the Kenzo System. Lecture Notes in Computer Science, 2012, , 113-120.	1.3	4
49	Verifying an Algorithm Computing Discrete Vector Fields for Digital Imaging. Lecture Notes in Computer Science, 2012, , 216-230.	1.3	4
50	fKenzo: A user interface for computations in Algebraic Topology. Journal of Symbolic Computation, 2011, 46, 685-698.	0.8	10
51	Proving with ACL2 the Correctness of Simplicial Sets in the Kenzo System. Lecture Notes in Computer Science, 2011, , 37-51.	1.3	6
52	Incidence Simplicial Matrices Formalized in Coq/SSReflect. Lecture Notes in Computer Science, 2011, , 30-44.	1.3	6
53	A System for Computing and Reasoning in Algebraic Topology. Lecture Notes in Computer Science, 2011, , 295-297.	1.3	0
54	Integrating Multiple Sources to Answer Questions in Algebraic Topology. Lecture Notes in Computer Science, 2010, , 331-335.	1.3	2

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55	Using Open Mathematical Documents to Interface Computer Algebra and Proof Assistant Systems. Lecture Notes in Computer Science, 2009, , 467-473.	1.3	4
56	Mediated Access to Symbolic Computation Systems. Lecture Notes in Computer Science, 2008, , 446-461.	1.3	4
57	Machine Learning in Proof General: Interfacing Interfaces. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 118, 15-41.	0.8	26
58	ACL2(ml): Machine-Learning for ACL2. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 152, 61-75.	0.8	4