

Diego H Milone

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

1,969
citations

279798

23
h-index

315739

38
g-index

109
all docs

109
docs citations

109
times ranked

2070
citing authors

#	ARTICLE	IF	CITATIONS
1	Transfer Learning Based on Optimal Transport for Motor Imagery Brain-Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2022, 69, 807-817.	4.2	18
2	miRe2e: a full end-to-end deep model based on transformers for prediction of pre-miRNAs. Bioinformatics, 2022, 38, 1191-1197.	4.1	10
3	Novel SARS-CoV-2 encoded small RNAs in the passage to humans. Bioinformatics, 2021, 36, 5571-5581.	4.1	24
4	Genome-wide discovery of pre-miRNAs: comparison of recent approaches based on machine learning. Briefings in Bioinformatics, 2021, 22, .	6.5	13
5	ChronoRoot: High-throughput phenotyping by deep segmentation networks reveals novel temporal parameters of plant root system architecture. GigaScience, 2021, 10, .	6.4	13
6	High precision in microRNA prediction: A novel genome-wide approach with convolutional deep residual networks. Computers in Biology and Medicine, 2021, 134, 104448.	7.0	12
7	Deepred-Mt: Deep representation learning for predicting C-to-U RNA editing in plant mitochondria. Computers in Biology and Medicine, 2021, 136, 104682.	7.0	25
8	Deep Learning for the discovery of new pre-miRNAs: Helping the fight against COVID-19. Machine Learning With Applications, 2021, 6, 100150.	4.4	11
9	On the relationship between research parasites and fairness in machine learning: challenges and opportunities. GigaScience, 2021, 10, .	6.4	0
10	Dimensional Affect Recognition from HRV: An Approach Based on Supervised SOM and ELM. IEEE Transactions on Affective Computing, 2020, 11, 32-44.	8.3	8
11	Deep Neural Architectures for Highly Imbalanced Data in Bioinformatics. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2857-2867.	11.3	28
12	Discriminative power of acoustic features for jaw movement classification in cattle and sheep. Bioacoustics, 2020, 29, 602-616.	1.7	11
13	Complexity measures of the mature miRNA for improving pre-miRNAs prediction. Bioinformatics, 2020, 36, 2319-2327.	4.1	9
14	Gender imbalance in medical imaging datasets produces biased classifiers for computer-aided diagnosis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12592-12594.	7.1	270
15	Audio recordings dataset of grazing jaw movements in dairy cattle. Data in Brief, 2020, 30, 105623.	1.0	7
16	DL4papers: a deep learning approach for the automatic interpretation of scientific articles. Bioinformatics, 2020, 36, 3499-3506.	4.1	4
17	Learning deformable registration of medical images with anatomical constraints. Neural Networks, 2020, 124, 269-279.	5.9	52
18	An online method for estimating grazing and rumination bouts using acoustic signals in grazing cattle. Computers and Electronics in Agriculture, 2020, 173, 105443.	7.7	25

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19	Predicting novel microRNA: a comprehensive comparison of machine learning approaches. Briefings in Bioinformatics, 2019, 20, 1607-1620.	6.5	31
20	Genome-wide hairpins datasets of animals and plants for novel miRNA prediction. Data in Brief, 2019, 25, 104209.	1.0	6
21	Alternative usage of miRNA-biogenesis co-factors in plants at low temperatures. Development (Cambridge), 2019, 146, .	2.5	21
22	Clustermatch: discovering hidden relations in highly diverse kinds of qualitative and quantitative data without standardization. Bioinformatics, 2019, 35, 1931-1939.	4.1	3
23	Genome-wide pre-miRNA discovery from few labeled examples. Bioinformatics, 2018, 34, 541-549.	4.1	13
24	Extreme learning machines for reverse engineering of gene regulatory networks from expression time series. Bioinformatics, 2018, 34, 1253-1260.	4.1	24
25	Blankets Joint Posterior score for learning Markov network structures. International Journal of Approximate Reasoning, 2018, 92, 295-320.	3.3	2
26	Inferring Unknown Biological Function by Integration of GO Annotations and Gene Expression Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 168-180.	3.0	9
27	Assessment of Homomorphic Analysis for Human Activity Recognition From Acceleration Signals. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1001-1010.	6.3	29
28	Monitoring and assessment of ingestive chewing sounds for prediction of herbage intake rate in grazing cattle. Animal, 2018, 12, 973-982.	3.3	33
29	Metabolic pathways synthesis based on ant colony optimization. Scientific Reports, 2018, 8, 16398.	3.3	3
30	On the Adaptability of Unsupervised CNN-Based Deformable Image Registration to Unseen Image Domains. Lecture Notes in Computer Science, 2018, , 294-302.	1.3	21
31	A regularity-based algorithm for identifying grazing and rumination bouts from acoustic signals in grazing cattle. Computers and Electronics in Agriculture, 2018, 151, 392-402.	7.7	22
32	Whole genome analysis of codon usage in Echinococcus. Molecular and Biochemical Parasitology, 2018, 225, 54-66.	1.1	21
33	Emotion recognition in never-seen languages using a novel ensemble method with emotion profiles. IEEE Transactions on Affective Computing, 2017, 8, 43-53.	8.3	35
34	High Class-Imbalance in pre-miRNA Prediction: A Novel Approach Based on deepSOM. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 1316-1326.	3.0	28
35	Feature extraction based on bio-inspired model for robust emotion recognition. Soft Computing, 2017, 21, 5145-5158.	3.6	13
36	microRNA analysis of Taenia crassiceps cysticerci under praziquantel treatment and genome-wide identification of Taenia solium miRNAs. International Journal for Parasitology, 2017, 47, 643-653.	3.1	15

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37	Computational Prediction of Novel miRNAs from Genome-Wide Data. <i>Methods in Molecular Biology</i> , 2017, 1654, 29-37.	0.9	0
38	Extreme learning machine prediction under high class imbalance in bioinformatics. , 2017, , .		1
39	Solar Power Plant Optimization. , 2017, , 360-385.		0
40	Evolutionary algorithm for metabolic pathways synthesis. <i>BioSystems</i> , 2016, 144, 55-67.	2.0	2
41	MicroRNA discovery in the human parasite <i>Echinococcus multilocularis</i> from genome-wide data. <i>Genomics</i> , 2016, 107, 274-280.	2.9	12
42	Multi-objective optimisation of wavelet features for phoneme recognition. <i>IET Signal Processing</i> , 2016, 10, 685-691.	1.5	9
43	Feature optimisation for stress recognition in speech. <i>Pattern Recognition Letters</i> , 2016, 84, 1-7.	4.2	12
44	A new index for clustering validation with overlapped clusters. <i>Expert Systems With Applications</i> , 2016, 64, 549-556.	7.6	21
45	Diversity control for improving the analysis of consensus clustering. <i>Information Sciences</i> , 2016, 361-362, 120-134.	6.9	14
46	A real-time algorithm for acoustic monitoring of ingestive behavior of grazing cattle. <i>Computers and Electronics in Agriculture</i> , 2016, 127, 64-75.	7.7	50
47	Using multiple frequency bins for stabilization of FD-ICA algorithms. <i>Signal Processing</i> , 2016, 119, 162-168.	3.7	8
48	A very simple and fast way to access and validate algorithms in reproducible research. <i>Briefings in Bioinformatics</i> , 2016, 17, 180-183.	6.5	13
49	Denosing sound signals in a bioinspired non-negative spectro-temporal domain. , 2015, 38, 22-31.		9
50	EvoMS: An evolutionary tool to find de novo metabolic pathways. <i>BioSystems</i> , 2015, 134, 43-47.	2.0	4
51	Metabolic analyses of interspecific tomato recombinant inbred lines for fruit quality improvement. <i>Metabolomics</i> , 2015, 11, 1416-1431.	3.0	35
52	miRNAfe: A comprehensive tool for feature extraction in microRNA prediction. <i>BioSystems</i> , 2015, 138, 1-5.	2.0	37
53	Mining Gene Regulatory Networks by Neural Modeling of Expression Time-Series. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2015, 12, 1365-1373.	3.0	11
54	Wavelet shrinkage using adaptive structured sparsity constraints. <i>Signal Processing</i> , 2015, 106, 73-87.	3.7	17

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55	Solar Power Plant Optimization. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 274-299.	0.4	0
56	Screening of obstructive sleep apnea with empirical mode decomposition of pulse oximetry. Medical Engineering and Physics, 2014, 36, 1074-1080.	1.7	34
57	Improving clustering with metabolic pathway data. BMC Bioinformatics, 2014, 15, 101.	2.6	7
58	An evolutionary approach for searching metabolic pathways. Computers in Biology and Medicine, 2013, 43, 1704-1712.	7.0	5
59	Automatic recognition of quarantine citrus diseases. Expert Systems With Applications, 2013, 40, 3512-3517.	7.6	57
60	Genetic wrapper approach for automatic diagnosis of speech disorders related to Autism. , 2013, , .		3
61	Clustering biological data with SOMs: On topology preservation in non-linear dimensional reduction. Expert Systems With Applications, 2013, 40, 3841-3845.	7.6	10
62	Compressing arrays of classifiers using Volterra-neural network: application to face recognition. Neural Computing and Applications, 2013, 23, 1687-1701.	5.6	4
63	Genetic wavelet packets for speech recognition. Expert Systems With Applications, 2013, 40, 2350-2359.	7.6	26
64	Feature selection for face recognition based on multi-objective evolutionary wrappers. Expert Systems With Applications, 2013, 40, 5077-5084.	7.6	76
65	Simulation of photovoltaic centrals with dynamic shading. Applied Energy, 2013, 103, 278-289.	10.1	64
66	Analysis and Integration of Biological Data. , 2013, , 203-230.		0
67	An evolutionary wrapper for feature selection in face recognition applications. , 2012, , .		8
68	A Biologically Inspired Validity Measure for Comparison of Clustering Methods over Metabolic Data Sets. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 706-716.	3.0	14
69	Automatic recognition of ingestive sounds of cattle based on hidden Markov models. Computers and Electronics in Agriculture, 2012, 87, 51-55.	7.7	46
70	Photovoltaic Inverters Optimisation. Energy Procedia, 2012, 14, 1484-1489.	1.8	9
71	Photovoltaic generation model as a function of weather variables using artificial intelligence techniques. International Journal of Hydrogen Energy, 2012, 37, 14781-14785.	7.1	8
72	Data Mining Over Biological Datasets: An Integrated Approach Based on Computational Intelligence. IEEE Computational Intelligence Magazine, 2012, 7, 22-34.	3.2	17

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73	Bioinspired sparse spectro-temporal representation of speech for robust classification. <i>Computer Speech and Language</i> , 2012, 26, 336-348.	4.3	11
74	Comparison of On-Line Wavelet Analysis and Reconstruction: With Application to ECG. , 2011, , .		1
75	Evolutionary Splines for Cepstral Filterbank Optimization in Phoneme Classification. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011, 2011, , .	1.7	20
76	An ICA-based method for the segmentation of pigmented skin lesions in macroscopic images. , 2011, 2011, 5993-6.		21
77	Acoustic monitoring of short-term ingestive behavior and intake in grazing sheep. <i>Livestock Science</i> , 2011, 140, 32-41.	1.6	43
78	Correlated Postfiltering and Mutual Information in Pseudoanechoic Model Based Blind Source Separation. <i>Journal of Signal Processing Systems</i> , 2011, 63, 333-344.	2.1	3
79	Spoken emotion recognition using hierarchical classifiers. <i>Computer Speech and Language</i> , 2011, 25, 556-570.	4.3	109
80	Evolutionary cepstral coefficients. <i>Applied Soft Computing Journal</i> , 2011, 11, 3419-3428.	7.2	19
81	*omeSOM: a software for clustering and visualization of transcriptional and metabolite data mined from interspecific crosses of crop plants. <i>BMC Bioinformatics</i> , 2010, 11, 438.	2.6	23
82	Denoising and recognition using hidden Markov models with observation distributions modeled by hidden Markov trees. <i>Pattern Recognition</i> , 2010, 43, 1577-1589.	8.1	17
83	Minimum classification error learning for sequential data in the wavelet domain. <i>Pattern Recognition</i> , 2010, 43, 3998-4010.	8.1	2
84	Efficiency study of different photovoltaic plant connection schemes under dynamic shading. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5838-5843.	7.1	13
85	Compressing a neural network classifier using a Volterra-Neural Network model. , 2010, , .		2
86	Neural network model for integration and visualization of introgressed genome and metabolite data. , 2009, , .		9
87	Indeterminacy Free Frequency-Domain Blind Separation of Reverberant Audio Sources. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009, 17, 299-311.	3.2	6
88	Computational method for segmentation and classification of ingestive sounds in sheep. <i>Computers and Electronics in Agriculture</i> , 2009, 65, 228-237.	7.7	31
89	MÃ©todos de agrupamiento no supervisado para la integraciÃ³n de datos genÃ©micos y metabÃ³licos de mÃºltiples lÃneas de introgresiÃ³n. <i>Inteligencia Artificial</i> , 2009, 13, .	0.8	1
90	Array of Multilayer Perceptrons with No-class Resampling Training for Face Recognition. <i>Inteligencia Artificial</i> , 2009, 13, .	0.8	0

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91	Minimum Classification Error Training of Hidden Markov Models for Sequential Data in the Wavelet Domain. <i>Inteligencia Artificial</i> , 2009, 13, .	0.8	0
92	Perceptual evaluation of blind source separation for robust speech recognition. <i>Signal Processing</i> , 2008, 88, 2578-2583.	3.7	40
93	Signal denoising with hidden Markov models using hidden Markov trees as observation densities. , 2008, , .		4
94	Learning Hidden Markov Models with Hidden Markov Trees as Observation Distributions. <i>Inteligencia Artificial</i> , 2008, 12, .	0.8	1
95	Auditory Cortical Representations of Speech Signals for Phoneme Classification. <i>Lecture Notes in Computer Science</i> , 2007, , 1004-1014.	1.3	4
96	Multiresolution information measures applied to speech recognition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 385, 319-332.	2.6	4
97	Objective quality evaluation in blind source separation for speech recognition in a real room. <i>Signal Processing</i> , 2007, 87, 1951-1965.	3.7	19
98	An EM Algorithm to Learn Sequences in the Wavelet Domain. <i>Lecture Notes in Computer Science</i> , 2007, , 518-528.	1.3	4
99	Introducing complexity measures in nonlinear physiological signals: application to robust speech recognition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 332, 496-508.	2.6	15
100	Prosodic and accentual information for automatic speech recognition. <i>IEEE Transactions on Speech and Audio Processing</i> , 2003, 11, 321-333.	1.5	14
101	Evolutionary algorithm for speech segmentation. , 0, , .		3
102	Study of complexity in normal and pathological speech signals. , 0, , .		2
103	Analysis and Integration of Biological Data. <i>Advances in Data Mining and Database Management Book Series</i> , 0, , 287-314.	0.5	0
104	Bridging physiological and perceptual views of autism by means of sampling-based Bayesian inference. <i>Network Neuroscience</i> , 0, , 1-17.	2.6	1