Sylvio Barbon

List of Publications by Year
in descending order

118 papers	1,553 citations	279798 23 h-index	395702 33 g-index
119 all docs	119 docs citations	119 times ranked	1403 citing authors

#	Article	IF	Citations
1	Predicting the ripening of papaya fruit with digital imaging and random forests. Computers and Electronics in Agriculture, 2018, 145, 76-82.	7.7	121
2	Machine learning hyperparameter selection for Contrast Limited Adaptive Histogram Equalization. Eurasip Journal on Image and Video Processing, 2019, 2019, .	2.6	61
3	Computer vision system and near-infrared spectroscopy for identification and classification of chicken with wooden breast, and physicochemical and technological characterization. Infrared Physics and Technology, 2019, 96, 303-310.	2.9	55
4	Digital image analyses as an alternative tool for chicken quality assessment. Biosystems Engineering, 2016, 144, 85-93.	4.3	52
5	IoTDS: A One-Class Classification Approach to Detect Botnets in Internet of Things Devices. Sensors, 2019, 19, 3188.	3.8	50
6	Comparison of rapid techniques for classification of ground meat. Biosystems Engineering, 2019, 183, 151-159.	4.3	49
7	Classification of Chicken Parts Using a Portable Near-Infrared (NIR) Spectrophotometer and Machine Learning. Applied Spectroscopy, 2018, 72, 1774-1780.	2.2	48
8	Language-Independent Fake News Detection: English, Portuguese, and Spanish Mutual Features. Future Internet, 2020, 12, 87.	3.8	46
9	Authorship verification applied to detection of compromised accounts on online social networks. Multimedia Tools and Applications, 2017, 76, 3213-3233.	3.9	37
10	Computer Vision Classification of Barley Flour Based on Spatial Pyramid Partition Ensemble. Sensors, 2019, 19, 2953.	3.8	36
11	Classification of fermented cocoa beans (cut test) using computer vision. Journal of Food Composition and Analysis, 2021, 97, 103771.	3.9	34
12	Storage time prediction of pork by Computational Intelligence. Computers and Electronics in Agriculture, 2016, 127, 368-375.	7.7	33
13	Account classification in online social networks with LBCA and wavelets. Information Sciences, 2016, 332, 72-83.	6.9	33
14	Applying multi-label techniques in emotion identification of short texts. Neurocomputing, 2018, 320, 35-46.	5.9	33
15	Strict Very Fast Decision Tree: A memory conservative algorithm for data stream mining. Pattern Recognition Letters, 2018, 116, 22-28.	4.2	32
16	A meta-learning approach for selecting image segmentation algorithm. Pattern Recognition Letters, 2019, 128, 480-487.	4.2	29
17	Process mining and hierarchical clustering to help intrusion alert visualization. Computers and Security, 2018, 73, 474-491.	6.0	27
18	Predicting poultry meat characteristics using an enhanced multi-target regression method. Biosystems Engineering, 2018, 171, 193-204.	4.3	27

#	Article	IF	Citations
19	Machine Learning Applied to Near-Infrared Spectra for Chicken Meat Classification. Journal of Spectroscopy, 2018, 2018, 1-12.	1.3	27
20	A neural-wavelet architecture for voice conversion. Neurocomputing, 2007, 71, 174-180.	5.9	25
21	Multi-target prediction of wheat flour quality parameters with near infrared spectroscopy. Information Processing in Agriculture, 2020, 7, 342-354.	4.1	25
22	Artificial Immune Systems and Fuzzy Logic to Detect Flooding Attacks in Software-Defined Networks. IEEE Access, 2020, 8, 100172-100184.	4.2	25
23	Unsupervised learning clustering and self-organized agents applied to help network management. Expert Systems With Applications, 2016, 54, 29-47.	7.6	23
24	Anomaly detection using the correlational paraconsistent machine with digital signatures of network segment. Information Sciences, 2017, 420, 313-328.	6.9	22
25	Development of a flexible Computer Vision System for marbling classification. Computers and Electronics in Agriculture, 2017, 142, 536-544.	7.7	22
26	Acoustic investigation of speech pathologies based on the discriminative paraconsistent machine (DPM). Biomedical Signal Processing and Control, 2020, 55, 101615.	5.7	22
27	Evaluation Goals for Online Process Mining: A Concept Drift Perspective. IEEE Transactions on Services Computing, 2022, 15, 2473-2489.	4.6	22
28	TERL: classification of transposable elements by convolutional neural networks. Briefings in Bioinformatics, 2021, 22, .	6.5	22
29	Introduction to the Discrete Shapelet Transform and a new paradigm: Joint time-frequency-shape analysis. , 2008, , .		20
30	A Framework for Human-in-the-loop Monitoring of Concept-drift Detection in Event Log Stream. , 2018, , .		20
31	Autoregressive decomposition and pole tracking applied to vocal fold nodule signals. Pattern Recognition Letters, 2007, 28, 1360-1367.	4.2	19
32	Multi-Output Tree Chaining: An Interpretative Modelling and Lightweight Multi-Target Approach. Journal of Signal Processing Systems, 2019, 91, 191-215.	2.1	19
33	Anomaly detection using digital signature of network segment with adaptive ARIMA model and Paraconsistent Logic. , 2014, , .		17
34	Deep computer vision system for cocoa classification. Multimedia Tools and Applications, 2022, 81, 41059-41077.	3.9	17
35	Toward a New Generation of Log Pre-processing Methods for Process Mining. Lecture Notes in Business Information Processing, 2017, , 55-70.	1.0	15
36	Toward Text Data Augmentation for Sentiment Analysis. IEEE Transactions on Artificial Intelligence, 2022, 3, 657-668.	4.7	14

#	Article	IF	Citations
37	White striping degree assessment using computer vision system and consumer acceptance test. Asian-Australasian Journal of Animal Sciences, 2019, 32, 1015-1026.	2.4	13
38	Wavelet-based dynamic time warping. Journal of Computational and Applied Mathematics, 2009, 227, 271-287.	2.0	12
39	Pattern Recognition of Lower Member Skin Ulcers in Medical Images with Machine Learning Algorithms. , 2015, , .		12
40	Overlapping Analytic Stages in Online Process Mining. , 2019, , .		12
41	Improved prediction of soil properties with multi-target stacked generalisation on EDXRF spectra. Chemometrics and Intelligent Laboratory Systems, 2021, 209, 104231.	3.5	12
42	Stacking Methods for Hierarchical Classification. , 2017, , .		11
43	Detection of Human, Legitimate Bot, and Malicious Bot in Online Social Networks Based on Wavelets. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-17.	4.3	11
44	Improving Hierarchical Classification of Transposable Elements using Deep Neural Networks. , 2018, , .		11
45	Detecting mobile botnets through machine learning and system calls analysis. , 2017, , .		9
46	Anomaly Detection on Event Logs with a Scarcity of Labels. , 2020, , .		9
47	Time Series Segmentation Based on Stationarity Analysis to Improve New Samples Prediction. Sensors, 2021, 21, 7333.	3.8	9
48	A Fractal-Based Approach for Speech Segmentation. , 2008, , .		8
49	DSTARS: A Multi-target Deep Structure for Tracking Asynchronous Regressor Stack. , 2017, , .		8
50	Anomaly Detection in Business Process based on Data Stream Mining. , 2018, , .		8
51	Evaluating Trace Encoding Methods in Process Mining. Lecture Notes in Computer Science, 2021, , 174-189.	1.3	8
52	Analysis of Language Inspired Trace Representation for Anomaly Detection. Communications in Computer and Information Science, 2020, , 296-308.	0.5	8
53	Using meta-learning for multi-target regression. Information Sciences, 2022, 584, 665-684.	6.9	8
54	Wavelet-based cepstrum calculation. Journal of Computational and Applied Mathematics, 2009, 227, 288-293.	2.0	7

#	Article	IF	Citations
55	Introducing the Discriminative Paraconsistent Machine (DPM). Information Sciences, 2013, 221, 389-402.	6.9	7
56	Color energy as a seed descriptor for image segmentation with region growing algorithms on skin wound images. , 2014, , .		7
57	Comparing Concept Drift Detection with Process Mining Tools. , 2019, , .		7
58	Dual Stage Image Analysis for a complex pattern classification task: Ham veining defect detection. Biosystems Engineering, 2020, 191, 129-144.	4.3	7
59	Advances in Data Management in the Big Data Era. IFIP Advances in Information and Communication Technology, 2021, , 99-126.	0.7	7
60	Improved Dynamic Time Warping Based on the Discrete Wavelet Transform. , 2007, , .		6
61	Pre-trained Data Augmentation for Text Classification. Lecture Notes in Computer Science, 2020, , 551-565.	1.3	6
62	DSTARS: A multi-target deep structure for tracking asynchronous regressor stacking. Applied Soft Computing Journal, 2020, 91, 106215.	7.2	6
63	Detecting and Mitigating Adversarial Examples in Regression Tasks: A Photovoltaic Power Generation Forecasting Case Study. Information (Switzerland), 2021, 12, 394.	2.9	6
64	Football player dominant region determined by a novel model based on instantaneous kinematics variables. Scientific Reports, 2021, 11, 18209.	3.3	6
65	Computer vision system for characterization of pasta (noodle) composition. Journal of Electronic Imaging, 2018, 27, 1.	0.9	6
66	Unsupervised online anomaly detection in Software Defined Network environments. Expert Systems With Applications, 2022, 191, 116225.	7.6	6
67	A Study on the Best Wavelet for Audio Compression. , 2006, , .		5
68	SPOKEN DOCUMENT SUMMARIZATION BASED ON DYNAMIC TIME WARPING AND WAVELETS. International Journal of Semantic Computing, 2007, 01, 347-357.	0.5	5
69	Using Ant Colony Optimization metaheuristic and Dynamic Time Warping for anomaly detection. , 2013, , .		5
70	Correlational paraconsistent machine for anomaly detection. , 2014, , .		5
71	Multi-class Emotions Classification by Sentic Levels as Features in Sentiment Analysis. , 2016, , .		5
72	A Meta-Learning Approach for Recommendation of Image Segmentation Algorithms. , 2016, , .		5

#	Article	IF	Citations
73	Making Data Stream Classification Tree-Based Ensembles Lighter. , 2018, , .		5
74	Evaluating the Four-Way Performance Trade-Off for Data Stream Classification in Edge Computing. IEEE Transactions on Network and Service Management, 2020, 17, 1013-1025.	4.9	5
75	Fuzzy approach for classification of pork into quality grades: coping with unclassifiable samples. Computers and Electronics in Agriculture, 2018, 150, 455-464.	7.7	4
76	Deciding among Fake, Satirical, Objective and Legitimate news. , 2019, , .		4
77	Towards Meta-Learning for Multi-Target Regression Problems. , 2019, , .		4
78	Mobile botnets detection based on machine learning over system calls. International Journal of Security and Networks, 2019, 14, 103.	0.2	4
79	Artificial and Natural Topic Detection in Online Social Networks. ISys, 2017, 10, 80-98.	0.2	4
80	Attack Detection in Smart Home IoT Networks using CluStream and Page-Hinkley Test. , 2021, , .		4
81	Sport action mining: Dribbling recognition in soccer. Multimedia Tools and Applications, 2022, 81, 4341-4364.	3.9	4
82	Adaptive Distribution of Vocabulary Frequencies: A Novel Estimation Suitable for Social Media Corpus. , 2014, , .		3
83	Benchmarking Multi-target Regression Methods. , 2018, , .		3
84	On the use of online clustering for anomaly detection in trace streams. , 2021, , .		3
85	Recognition on Online Social Network by user's writing style. ISys, 2015, 8, 64-85.	0.2	3
86	Discovering Attackers Past Behavior to Generate Online Hyper-Alerts. ISys, 2017, 10, 122-147.	0.2	3
87	Intrusion Alert Correlation to Support Security Management. , 0, , .		3
88	Topic Modeling based on Louvain method in Online Social Networks. , 0, , .		3
89	Leveraging Anomaly Detection in Business Process with Data Stream Mining. ISys, 2019, 12, 54-75.	0.2	3
90	Support Vector Machines and Wavelets for Voice Disorder Sorting. , 0, , .		2

#	Article	IF	Citations
91	U-Healthcare System for Pre-Diagnosis of Parkinson's Disease from Voice Signal. , 2018, , .		2
92	Stock Portfolio Prediction by Multi-Target Decision Support. , 2018, , .		2
93	Evaluating the Four-Way Performance Trade-Off for Stream Classification. Lecture Notes in Computer Science, 2019, , 3-17.	1.3	2
94	Photovoltaic Generation Forecast: Model Training and Adversarial Attack Aspects. Lecture Notes in Computer Science, 2020, , 634-649.	1.3	2
95	Process Mining Encoding via Meta-learning for an Enhanced AnomalyÂDetection. Communications in Computer and Information Science, 2021, , 157-168.	0.5	2
96	On the use of blockchain for agrifood traceability. , 2021, , 279-302.		2
97	RELATIONSHIP QUALITY IN ELECTRONIC COMMERCE (RELACIONAMENTO DE QUALIDADE NO COMÃ‰RCIO) Tj ETQq1 1 0.784314 rgB	0.1	2
98	Robust computer vision system for marbling meat segmentation. Electronic Letters on Computer Vision and Image Analysis, 2020, 19, 15.	0.6	2
99	A Neural-Network Approach for Speech Features Classification Based on Paraconsistent Logic. , 2009, , .		1
100	Estudo comparativo entre algoritmos das transformadas discretas de Fourier e Wavelet. Revista Brasileira De ComputaçÃ£o Aplicada, 2015, 7, .	0.1	1
101	Improvements on diagnostic assessment questionnaires of Maturity Level Management with feature selection. , 2019, , .		1
102	Computational Analysis of and CircRNAs in. Methods in Molecular Biology, 2021, 2362, 147-172.	0.9	1
103	Meta-recommendation of pork technological quality standards. Biosystems Engineering, 2021, 210, 13-19.	4.3	1
104	Stock Portfolio Prediction by Multi-Target Decision Support. ISys, 2019, 12, 05-27.	0.2	1
105	How Machine Learning Can Support Cyberattack Detection in Smart Grids. , 2020, , 225-258.		1
106	Advantages of Multi-Target Modelling for Spectral Regression. , 2020, , 95-121.		1
107	Towards Proximity Graph Auto-configuration: An Approach Based on Meta-learning. Lecture Notes in Computer Science, 2020, , 93-107.	1.3	1
108	Comparing Concept Drift Detection with Process Mining Software. ISys, 2020, 13, 101-125.	0.2	1

#	Article	IF	Citations
109	Improved Dynamic Time Warping Based on the Discrete Wavelet Transform. , 2007, , .		1
110	A Fractal and Wavelet-Based Approach for Audio Coding.. , 2006, , .		0
111	On the Determination of Epsilon during Discriminative GMM Training. , 2010, , .		0
112	Online Local Boosting: Improving Performance in Online Decision Trees. , 2019, , .		0
113	Active Learning Embedded inÂIncremental Decision Trees. Lecture Notes in Computer Science, 2020, , 367-381.	1.3	0
114	Comparison of SVM and REPTRee for Classification of Poultry Quality. , 2016, , .		0
115	Marbling Grading Framework Applied on Meat Boutique Environment. , 0, , .		0
116	Computer vison for classification and quality analysis of food.. , 0, , .		0
117	IdentificaÃ§Ã£o de ComposiÃ§Ãµes da Paisagem Urbana. Revista De Morfologia Urbana, 2020, 8, e00140.	0.0	0
118	A Multi-label Classification System to Distinguish among Fake, Satirical, Objective and Legitimate News in Brazilian Portuguese. ISys, 2020, 13, 126-149.	0.2	0