Donato Impedovo

List of Publications by Year
in descending order

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		361388	265191
104	2,115	20	42
papers	citations	h-index	g-index

110	110	110	1162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Human Gait Analysis in Neurodegenerative Diseases: A Review. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 229-242.	6.3	56
2	Combining Unsupervised Approaches for Near Real-Time Network Traffic Anomaly Detection. Applied Sciences (Switzerland), 2022, 12, 1759.	2.5	16
3	Comparing Deep Learning and Shallow Learning Techniques for API Calls Malware Prediction: A Study. Applied Sciences (Switzerland), 2022, 12, 1645.	2.5	12
4	AUCO ResNet: an end-to-end network for Covid-19 pre-screening from cough and breath. Pattern Recognition, 2022, 127, 108656.	8.1	25
5	Comparing Artificial Intelligence Algorithms in Computer Vision: The Weapon Detection Benchmark. Lecture Notes in Computer Science, 2022, , 72-83.	1.3	0
6	IEEE Access Special Section Editorial: Behavioral Biometrics for Ehealth and Well-Being. IEEE Access, 2022, 10, 56706-56710.	4.2	0
7	Automatic Signature Verification in the Mobile Cloud Scenario: Survey and Way Ahead. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 554-568.	4.6	25
8	A Handwritten Signature Segmentation Approach for Multi-resolution and Complex Documents Acquired by Multiple Sources. Lecture Notes in Computer Science, 2021, , 322-336.	1.3	0
9	ICDAR 2021 Competition onÂComponents Segmentation Task ofÂDocument Photos. Lecture Notes in Computer Science, 2021, , 678-692.	1.3	1
10	Benchmarking of Shallow Learning and Deep Learning Techniques with Transfer Learning for Neurodegenerative Disease Assessment Through Handwriting. Lecture Notes in Computer Science, 2021, , 7-20.	1.3	3
11	Sit-to-Stand Test for Neurodegenerative Diseases Video Classification. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, .	1.2	2
12	Effective Machine Learning Solutions for Punctual Weather Parameter Forecasting in a Real Missing Data Scenario. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, .	1.2	1
13	Online Handwriting, Signature and Touch Dynamics: Tasks and Potential Applications in the Field of Security and Health. Cognitive Computation, 2021, 13, 1406-1421.	5.2	10
14	A comparative study of shallow learning and deep transfer learning techniques for accurate fingerprints vitality detection. Pattern Recognition Letters, 2021, 151, 11-18.	4.2	6
15	Fall Detection by Human Pose Estimation and Kinematic Theory. , 2021, , .		6
16	One Time User Key: a user-based secret sharing XOR-ed model for multiple user cryptography in distributed systems. IEEE Access, 2021, , 1-1.	4.2	3
17	Improving smart interactive experiences in cultural heritage through pattern recognition techniques. Pattern Recognition Letters, 2020, 131, 142-149.	4.2	21
18	Double Deep Q Network with In-Parallel Experience Generator. , 2020, , .		0

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19	FCN+RL: A Fully Convolutional Network followed by Refinement Layers to Offline Handwritten Signature Segmentation. , 2020, , .		6
20	Gait Analysis for Early Neurodegenerative Diseases Classification Through the Kinematic Theory of Rapid Human Movements. IEEE Access, 2020, 8, 193966-193980.	4.2	29
21	Artificial Intelligence Applications to Smart City and Smart Enterprise. Applied Sciences (Switzerland), 2020, 10, 2944.	2.5	18
22	A Controlled Benchmark of Video Violence Detection Techniques. Information (Switzerland), 2020, 11, 321.	2.9	5
23	Affective states recognition through touch dynamics. Multimedia Tools and Applications, 2020, 79, 35909-35926.	3.9	11
24	Vertex Feature Classification (VFC). , 2020, , .		1
25	Sit-to-Stand Test for Neurodegenerative Diseases Video Classification. Lecture Notes in Computer Science, 2020, , 596-609.	1.3	3
26	An Application and Integration of Machine Learning Approach on a Real IoT Agricultural Scenario. Lecture Notes in Computer Science, 2020, , 474-483.	1.3	0
27	Signatures' stability evaluation in a multi-device scenario. , 2020, , .		1
28	Investigating the Sigma-Lognormal Model for Disease Classification by Handwriting. Series in Machine Perception and Artificial Intelligence, 2020, , 195-209.	0.1	3
29	Dynamic Handwriting Analysis for the Assessment of Neurodegenerative Diseases: A Pattern Recognition Perspective. IEEE Reviews in Biomedical Engineering, 2019, 12, 209-220.	18.0	90
30	Handwriting analysis to support neurodegenerative diseases diagnosis: A review. Pattern Recognition Letters, 2019, 121, 37-45.	4.2	93
31	Dynamically enhanced static handwriting representation for Parkinsonâ€™s disease detection. Pattern Recognition Letters, 2019, 128, 204-210.	4.2	74
32	A Perspective Analysis of Handwritten Signature Technology. ACM Computing Surveys, 2019, 51, 1-39.	23.0	142
33	Attentional Pattern Classification for Automatic Dementia Detection. IEEE Access, 2019, 7, 57706-57716.	4.2	27
34	A Handwriting-Based Protocol for Assessing Neurodegenerative Dementia. Cognitive Computation, 2019, 11, 576-586.	5.2	43
35	Deep learning approach to generate offline handwritten signatures based on online samples. IET Biometrics, 2019, 8, 215-220.	2.5	10
36	Velocity-Based Signal Features for the Assessment of Parkinsonian Handwriting. IEEE Signal Processing Letters, 2019, 26, 632-636.	3.6	45

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37	eHealth and Artificial Intelligence. Information (Switzerland), 2019, 10, 117.	2.9	5
38	TrafficWave: Generative Deep Learning Architecture for Vehicular Traffic Flow Prediction. Applied Sciences (Switzerland), 2019, 9, 5504.	2.5	21
39	Weighted Direct Matching Points for User Stability Model in Multiple Domains: A Proposal for On-Line Signature Verification. , 2019, , .		5
40	Semantics for Wastewater Reuse in Agriculture*. , 2019, , .		3
41	Vehicular Traffic Congestion Classification by Visual Features and Deep Learning Approaches: A Comparison. Sensors, 2019, 19, 5213.	3.8	34
42	An Evolutionary Approach to address Interoperability Issues in Multi-Device Signature Verification. , 2019, , .		4
43	Handwriting Dynamics as an Indicator of Cognitive Reserve: An Exploratory Study*. , 2019, , .		2
44	Online Handwriting Analysis for the Assessment of Alzheimerâ€™s Disease and Parkinsonâ€™s Disease: Overview and Experimental Investigation. , 2019, , 113-128.		2
45	Real-Time Neurodegenerative Disease Video Classification with Severity Prediction. Lecture Notes in Computer Science, 2019, , 618-628.	1.3	3
46	Performance-Driven Handwriting Task Selection for Parkinsonâ€™s Disease Classification. Lecture Notes in Computer Science, 2019, , 281-293.	1.3	4
47	Detection and Validation of Tow-Away Road Sign Licenses through Deep Learning Methods. Sensors, 2018, 18, 4147.	3.8	4
48	LICIC: Less Important Components for Imbalanced Multiclass Classification. Information (Switzerland), 2018, 9, 317.	2.9	11
49	Dynamic Handwriting Analysis for Supporting Earlier Parkinsonâ€™s Disease Diagnosis. Information (Switzerland), 2018, 9, 247.	2.9	50
50	Smart Farms for a Sustainable and Optimized Model of Agriculture. , 2018, , .		6
51	Machine Learning Applications on Agricultural Datasets for Smart Farm Enhancement. Machines, 2018, 6, 38.	2.2	125
52	Stability-based system for bearing fault early detection. Expert Systems With Applications, 2017, 79, 65-75.	7.6	18
53	Script Identification of Multi-Script Documents: a Survey. IEEE Access, 2017, , 1-1.	4.2	17
54	User and entity interaction within multi-level decision support system in living lab projects. International Journal of Applied Decision Sciences, 2015, 8, 284.	0.3	0

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55	Off-line signature stability by optical flow: Feasibility study of predicting the verifier performance. , 2015, , .		1
56	Behaviour of dynamic and static feature dependences in constrained signatures. , 2015, , .		3
57	Novel method for early bearing fault detection based on dynamic stability measure. , 2015, , .		5
58	Multidomain Verification of Dynamic Signatures Using Local Stability Analysis. IEEE Transactions on Human-Machine Systems, 2015, 45, 805-810.	3.5	50
59	Class-adaptive zoning methods for recognizing handwritten digits and characters. , 2015, , .		0
60	Similarity-based regularization for semi-supervised learning for handwritten digit recognition. , 2015, , .		1
61	A Survey on Traffic Light Detection. Lecture Notes in Computer Science, 2015, , 201-208.	1.3	25
62	Early Diagnosis of Neurodegenerative Diseases by Handwritten Signature Analysis. Lecture Notes in Computer Science, 2015, , 290-297.	1.3	19
63	CLICK TEATRO Project: Augmented Reality and Promotion of Theater Events. Lecture Notes in Computer Science, 2015, , 267-274.	1.3	0
64	Interoperability of Biometric Systems: Analysis of Geometric Characteristics of Handwritten Signatures. Lecture Notes in Computer Science, 2015, , 242-249.	1.3	2
65	On-Line Signature Verification by Multi-domain Classification. , 2014, , .		3
66	Recent Advances in Offline Signature Identification. , 2014, , .		15
67	Zoning methods for handwritten character recognition: A survey. Pattern Recognition, 2014, 47, 969-981.	8.1	54
68	Online Signature Verification. , 2014, , 917-947.		23
69	About retraining rule in multi-expert intelligent system for semi-supervised learning using SVM classifiers. International Journal of Signal and Imaging Systems Engineering, 2014, 7, 245.	0.6	4
70	Stability analysis of dynamic signatures in multiple representation domains: application to automatic signature verification. International Journal of Signal and Imaging Systems Engineering, 2014, 7, 180.	0.6	0
71	Writing Generation Model for Health Care Neuromuscular System Investigation. Lecture Notes in Computer Science, 2014, , 137-148.	1.3	14
72	INSTANCE SELECTION METHOD IN MULTI-EXPERT SYSTEM FOR ONLINE SIGNATURE VERIFICATION. , 2014, , 53-64.		0

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73	Verification of Static Signatures by Optical Flow Analysis. IEEE Transactions on Human-Machine Systems, 2013, 43, 499-505.	3.5	34
74	Voronoi Tessellation for Effective and Efficient Handwritten Digit Classification. , 2013, , .		1
75	Cosine similarity for analysis and verification of static signatures. IET Biometrics, 2013, 2, 151-158.	2.5	28
76	Stability of Dynamic Signatures: From the Representation to the Generation Domain. Lecture Notes in Computer Science, 2013, , 122-130.	1.3	3
77	Learning Strategies for Knowledge-Base Updating in Online Signature Verification Systems. Lecture Notes in Computer Science, 2013, , 86-94.	1.3	0
78	Learning Iterative Strategies in Multi-Expert Systems Using SVMs for Digit Recognition. Lecture Notes in Computer Science, 2013, , 121-130.	1.3	3
79	Layout-Based Document-Retrieval System by Radon Transform Using Dynamic Time Warping. Lecture Notes in Computer Science, 2013, , 61-70.	1.3	4
80	Adaptive Score Normalization for Output Integration in Multiclassifier Systems. IEEE Signal Processing Letters, 2012, 19, 837-840.	3.6	5
81	Analysis of Stability in Static Signatures Using Cosine Similarity. , 2012, , .		19
82	Supervised learning strategies in multi-classifier systems. , 2012, , .		5
83	Multi-classifier System Configuration Using Genetic Algorithms. , 2012, , .		1
84	Handwritten Signature Verification: New Advancements and Open Issues. , 2012, , .		44
85	Benchmarking of update learning strategies on digit classifier systems. , 2012, , .		5
86	New Advancements in Zoning-Based Recognition of Handwritten Characters. , 2012, , .		7
87	Adaptive Membership Functions for Handwritten Character Recognition by Voronoi-Based Image Zoning. IEEE Transactions on Image Processing, 2012, 21, 3827-3837.	9.8	29
88	A multiâ€resolution multiâ€classifier system for speaker verification. Expert Systems, 2012, 29, 442-455.	4.5	6
89	Fuzzy-Zoning-Based Classification for Handwritten Characters. IEEE Transactions on Fuzzy Systems, 2011, 19, 780-785.	9.8	33
90	Updating Knowledge in Feedback-Based Multi-classifier Systems. , 2011, , .		13

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91	Land cover classification by using multi-temporal COSMO-SkyMed data. , 2011, , .		6
92	Stability Analysis of Static Signatures for Automatic Signature Verification. Lecture Notes in Computer Science, 2011, , 241-247.	1.3	4
93	Generating Sets of Classifiers for the Evaluation of Multi-expert Systems. , 2010, , .		1
94	On combining HMM-based speaker verification classifiers. , 2010, , .		0
95	A Feedback-Based Multi-Classifier System. , 2009, , .		15
96	Combination of Measurement-Level Classifiers: Output Normalization by Dynamic Time Warping. , 2009, , .		0
97	Pseudo Multi Parallel Branch HMM for Speaker Verification. Advances in Intelligent and Soft Computing, 2009, , 339-346.	0.2	2
98	Learning Local Correspondences for Static Signature Verification. Lecture Notes in Computer Science, 2009, , 385-394.	1.3	3
99	Automatic Signature Verification: The State of the Art. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 609-635.	2.9	497
100	Speaker Identification by Multi-Frame Generative Models. , 2008, , .		2
101	Handwritten Signature and Speech: Preliminary Experiments on Multiple Source and Classifiers for Personal Identity Verification. Lecture Notes in Computer Science, 2008, , 181-191.	1.3	6
102	The Influence of Frame Length on Speaker Identification Performance. , 2007, , .		4
103	The Influence of Frame Length on Speaker Identification Performance. , 2007, , .		2
104	Bank-check processing system: modifications due to the new European currency. , 0, , .		4