

Alexandros Iosifidis

List of Publications by Year in descending order

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Version: 2024-02-01

190
papers

3,689
citations

136740

32
h-index

197535

49
g-index

195
all docs

195
docs citations

195
times ranked

2302
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning and computer vision will transform entomology. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	203
2	Forecasting Stock Prices from the Limit Order Book Using Convolutional Neural Networks. , 2017, , .		171
3	On the kernel Extreme Learning Machine classifier. Pattern Recognition Letters, 2015, 54, 11-17.	2.6	139
4	Temporal Attention-Augmented Bilinear Network for Financial Time-Series Data Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1407-1418.	7.2	135
5	View-Invariant Action Recognition Based on Artificial Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 412-424.	7.2	117
6	Regularized extreme learning machine for multi-view semi-supervised action recognition. Neurocomputing, 2014, 145, 250-262.	3.5	102
7	Minimum Class Variance Extreme Learning Machine for Human Action Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1968-1979.	5.6	91
8	Graph Embedded Extreme Learning Machine. IEEE Transactions on Cybernetics, 2016, 46, 311-324.	6.2	86
9	Generalized Multi-View Embedding for Visual Recognition and Cross-Modal Retrieval. IEEE Transactions on Cybernetics, 2018, 48, 2542-2555.	6.2	81
10	Benchmark dataset for mid-price forecasting of limit order book data with machine learning methods. Journal of Forecasting, 2018, 37, 852-866.	1.6	75
11	Using deep learning to detect price change indications in financial markets. , 2017, , .		73
12	Multi-view human movement recognition based on fuzzy distances and linear discriminant analysis. Computer Vision and Image Understanding, 2012, 116, 347-360.	3.0	68
13	Discriminant Bag of Words based representation for human action recognition. Pattern Recognition Letters, 2014, 49, 185-192.	2.6	68
14	Species-level image classification with convolutional neural network enables insect identification from habitus images. Ecology and Evolution, 2020, 10, 737-747.	0.8	68
15	Regularized Extreme Learning Machine for Large-scale Media Content Analysis. Procedia Computer Science, 2015, 53, 420-427.	1.2	61
16	Deep Adaptive Input Normalization for Time Series Forecasting. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3760-3765.	7.2	60
17	Multi-view action recognition based on action volumes, fuzzy distances and cluster discriminant analysis. Signal Processing, 2013, 93, 1445-1457.	2.1	57
18	Automatic image-based identification and biomass estimation of invertebrates. Methods in Ecology and Evolution, 2020, 11, 922-931.	2.2	57

#	ARTICLE	IF	CITATIONS
19	Activity-Based Person Identification Using Fuzzy Representation and Discriminant Learning. IEEE Transactions on Information Forensics and Security, 2012, 7, 530-542.	4.5	56
20	Operational neural networks. Neural Computing and Applications, 2020, 32, 6645-6668.	3.2	52
21	On the Optimal Class Representation in Linear Discriminant Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1491-1497.	7.2	47
22	Dynamic action recognition based on dynemes and Extreme Learning Machine. Pattern Recognition Letters, 2013, 34, 1890-1898.	2.6	47
23	Multi-class Support Vector Machine classifiers using intrinsic and penalty graphs. Pattern Recognition, 2016, 55, 231-246.	5.1	44
24	Heterogeneous Multilayer Generalized Operational Perceptron. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 710-724.	7.2	43
25	Using Deep Learning for price prediction by exploiting stationary limit order book features. Applied Soft Computing Journal, 2020, 93, 106401.	4.1	41
26	DropELM: Fast neural network regularization with Dropout and DropConnect. Neurocomputing, 2015, 162, 57-66.	3.5	39
27	Self-organized Operational Neural Networks with Generative Neurons. Neural Networks, 2021, 140, 294-308.	3.3	38
28	Graph Embedded One-Class Classifiers for media data classification. Pattern Recognition, 2016, 60, 585-595.	5.1	37
29	Class-Specific Reference Discriminant Analysis With Application in Human Behavior Analysis. IEEE Transactions on Human-Machine Systems, 2015, 45, 315-326.	2.5	36
30	Approximate kernel extreme learning machine for large scale data classification. Neurocomputing, 2017, 219, 210-220.	3.5	36
31	Machine Learning for Forecasting Mid-Price Movements Using Limit Order Book Data. IEEE Access, 2019, 7, 64722-64736.	2.6	36
32	On the kernel Extreme Learning Machine speedup. Pattern Recognition Letters, 2015, 68, 205-210.	2.6	34
33	Progressive Operational Perceptrons. Neurocomputing, 2017, 224, 142-154.	3.5	34
34	Forecasting jump arrivals in stock prices: new attention-based network architecture using limit order book data. Quantitative Finance, 2019, 19, 2033-2050.	0.9	34
35	Feature Engineering for Mid-Price Prediction With Deep Learning. IEEE Access, 2019, 7, 82390-82412.	2.6	33
36	Temporal Bag-of-Features Learning for Predicting Mid Price Movements Using High Frequency Limit Order Book Data. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 774-785.	3.4	31

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37	Time-series classification using neural Bag-of-Features. , 2017, , .		30
38	Tensor representation in high-frequency financial data for price change prediction. , 2017, , .		30
39	Multidimensional Sequence Classification Based on Fuzzy Distances and Discriminant Analysis. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2564-2575.	4.0	29
40	Improving efficiency in convolutional neural networks with multilinear filters. Neural Networks, 2018, 105, 328-339.	3.3	27
41	IrradianceNet: Spatiotemporal deep learning model for satellite-derived solar irradiance short-term forecasting. Solar Energy, 2021, 228, 659-669.	2.9	27
42	Kernel Reference Discriminant Analysis. Pattern Recognition Letters, 2014, 49, 85-91.	2.6	26
43	One-Class Classification Based on Extreme Learning and Geometric Class Information. Neural Processing Letters, 2017, 45, 577-592.	2.0	26
44	Subspace Support Vector Data Description. , 2018, , .		26
45	Semi-supervised subclass support vector data description for image and video classification. Neurocomputing, 2018, 278, 51-61.	3.5	25
46	Benchmark database for fine-grained image classification of benthic macroinvertebrates. Image and Vision Computing, 2018, 78, 73-83.	2.7	25
47	Multi-view Human Action Recognition: A Survey. , 2013, , .		24
48	Visual Voice Activity Detection in the Wild. IEEE Transactions on Multimedia, 2016, 18, 967-977.	5.2	24
49	Movement recognition exploiting multi-view information. , 2010, , .		23
50	Nystrom-based approximate kernel subspace learning. Pattern Recognition, 2016, 57, 190-197.	5.1	23
51	Bag of Color Features for Color Constancy. IEEE Transactions on Image Processing, 2020, 29, 7722-7734.	6.0	23
52	Data-driven fluid mechanics of wind farms: A review. Journal of Renewable and Sustainable Energy, 2022, 14, .	0.8	22
53	Minimum Variance Extreme Learning Machine for human action recognition. , 2014, , .		21
54	Probabilistic saliency estimation. Pattern Recognition, 2018, 74, 359-372.	5.1	19

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55	INTEL-TAU: A Color Constancy Dataset. IEEE Access, 2021, 9, 39560-39567.	2.6	19
56	Automatic flower detection and phenology monitoring using time-lapse cameras and deep learning. Remote Sensing in Ecology and Conservation, 2022, 8, 765-777.	2.2	18
57	Neural representation and learning for multi-view human action recognition. , 2012, , .		17
58	Extreme learning machine based supervised subspace learning. Neurocomputing, 2015, 167, 158-164.	3.5	17
59	Progressive Operational Perceptrons with Memory. Neurocomputing, 2020, 379, 172-181.	3.5	17
60	Human experts vs. machines in taxa recognition. Signal Processing: Image Communication, 2020, 87, 115917.	1.8	17
61	Temporal logistic neural Bag-of-Features for financial time series forecasting leveraging limit order book data. Pattern Recognition Letters, 2020, 136, 183-189.	2.6	17
62	Feedforward neural networks initialization based on discriminant learning. Neural Networks, 2022, 146, 220-229.	3.3	17
63	Scaling Up Class-Specific Kernel Discriminant Analysis for Large-Scale Face Verification. IEEE Transactions on Information Forensics and Security, 2016, 11, 2453-2465.	4.5	16
64	Multilinear class-specific discriminant analysis. Pattern Recognition Letters, 2017, 100, 131-136.	2.6	16
65	Multi-View Nonparametric Discriminant Analysis for Image Retrieval and Recognition. IEEE Signal Processing Letters, 2017, 24, 1537-1541.	2.1	16
66	Learning graph affinities for spectral graph-based salient object detection. Pattern Recognition, 2017, 64, 159-167.	5.1	16
67	Multimodal subspace support vector data description. Pattern Recognition, 2021, 110, 107648.	5.1	16
68	Eating and drinking activity recognition based on discriminant analysis of fuzzy distances and activity volumes. , 2012, , .		15
69	CNN-based edge filtering for object proposals. Neurocomputing, 2017, 266, 631-640.	3.5	15
70	Color Constancy Convolutional Autoencoder. , 2019, , .		15
71	Saliency-Based Multilabel Linear Discriminant Analysis. IEEE Transactions on Cybernetics, 2022, 52, 10200-10213.	6.2	15
72	Generalized model of biological neural networks: Progressive operational perceptrons. , 2017, , .		14

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73	Knowledge Transfer for Face Verification Using Heterogeneous Generalized Operational Perceptrons. , 2019, , .		14
74	Semi-supervised Classification of Human Actions Based on Neural Networks. , 2014, , .		13
75	Class-Specific Kernel Discriminant Analysis Revisited: Further Analysis and Extensions. IEEE Transactions on Cybernetics, 2017, 47, 4485-4496.	6.2	13
76	Single-layer vision transformers for more accurate early exits with less overhead. Neural Networks, 2022, 153, 461-473.	3.3	13
77	Variance-preserving deep metric learning for content-based image retrieval. Pattern Recognition Letters, 2020, 131, 8-14.	2.6	12
78	Temporal Attention-Augmented Graph Convolutional Network for Efficient Skeleton-Based Human Action Recognition. , 2021, , .		12
79	Supervised Domain Adaptation: A Graph Embedding Perspective and a Rectified Experimental Protocol. IEEE Transactions on Image Processing, 2021, 30, 8619-8631.	6.0	12
80	Data Enrichment in Fine-Grained Classification of Aquatic Macroinvertebrates. , 2016, , .		11
81	Multilinear Compressive Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1512-1524.	7.2	11
82	Hypersphere-Based Weight Imprinting for Few-Shot Learning on Embedded Devices. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 925-930.	7.2	11
83	Exploiting heterogeneity in operational neural networks by synaptic plasticity. Neural Computing and Applications, 2021, 33, 7997-8015.	3.2	11
84	PyGOP: A Python library for Generalized Operational Perceptron algorithms. Knowledge-Based Systems, 2019, 182, 104801.	4.0	10
85	Large-scale nonlinear facial image classification based on approximate kernel Extreme Learning Machine. , 2015, , .		9
86	Exploiting subclass information in one-class support vector machine for video summarization. , 2015, , .		9
87	One class classification applied in facial image analysis. , 2016, , .		9
88	Exploiting stereoscopic disparity for augmenting human activity recognition performance. Multimedia Tools and Applications, 2016, 75, 11641-11660.	2.6	9
89	Speed-up and multi-view extensions to subclass discriminant analysis. Pattern Recognition, 2021, 111, 107660.	5.1	9
90	Pain detection using batch normalized discriminant restricted Boltzmann machine layers. Journal of Visual Communication and Image Representation, 2021, 76, 103062.	1.7	9

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91	A Hybrid Static/Active Video Surveillance System. International Journal of Optomechatronics, 2011, 5, 80-95.	3.3	8
92	Learning sparse representations for view-independent human action recognition based on fuzzy distances. Neurocomputing, 2013, 121, 344-353.	3.5	8
93	Video summarization based on Subclass Support Vector Data Description. , 2014, , .		8
94	Automatic Flower and Visitor Detection System. , 2018, , .		8
95	Progressive Graph Convolutional Networks for Semi-Supervised Node Classification. IEEE Access, 2021, 9, 81957-81968.	2.6	8
96	Fast Kernel Matrix Computation for Big Data Clustering. Procedia Computer Science, 2015, 51, 2445-2452.	1.2	7
97	Mid-Price Prediction Based on Machine Learning Methods with Technical and Quantitative Indicators. SSRN Electronic Journal, 0, , .	0.4	7
98	Learning to Rank: A Progressive Neural Network Learning Approach. , 2019, , .		7
99	Ellipsoidal Subspace Support Vector Data Description. IEEE Access, 2020, 8, 122013-122025.	2.6	7
100	Deep Multi-View Learning to Rank. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 1426-1438.	4.0	7
101	On the spatial attention in spatio-temporal graph convolutional networks for skeleton-based human action recognition. , 2021, , .		7
102	Person identification from actions based on Artificial Neural Networks. , 2013, , .		6
103	Video characterization based on activity clustering. , 2014, , .		6
104	Human action recognition based on bag of features and multi-view neural networks. , 2014, , .		6
105	Class-Specific Nonlinear Projections Using Class-Specific Kernel Spaces. , 2015, , .		6
106	Machine Learning Based Analysis of Finnish World War II Photographers. IEEE Access, 2020, 8, 144184-144196.	2.6	6
107	Mid-price prediction based on machine learning methods with technical and quantitative indicators. PLoS ONE, 2020, 15, e0234107.	1.1	6
108	Recurrent bag-of-features for visual information analysis. Pattern Recognition, 2020, 106, 107380.	5.1	6

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109	CloudCast: A Satellite-Based Dataset and Baseline for Forecasting Clouds. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3485-3494.	2.3	6
110	Forecasting Financial Time Series Using Robust Deep Adaptive Input Normalization. Journal of Signal Processing Systems, 2021, 93, 1235-1251.	1.4	6
111	Active classification for human action recognition. , 2013, , .		5
112	Person identification from actions based on dynemes and discriminant learning. , 2013, , .		5
113	Stereoscopic video description for human action recognition. , 2014, , .		5
114	Human Action Recognition Based on Multi-View Regularized Extreme Learning Machine. International Journal on Artificial Intelligence Tools, 2015, 24, 1540020.	0.7	5
115	Sparse extreme learning machine classifier exploiting intrinsic graphs. Pattern Recognition Letters, 2015, 65, 192-196.	2.6	5
116	Learned vs. engineered features for fine-grained classification of aquatic macroinvertebrates. , 2016, , .		5
117	The effect of automated taxa identification errors on biological indices. Expert Systems With Applications, 2017, 72, 108-120.	4.4	5
118	Big Media Data Analysis. Signal Processing: Image Communication, 2017, 59, 105-108.	1.8	5
119	Weighted Linear Discriminant Analysis Based on Class Saliency Information. , 2018, , .		5
120	Curriculum-based Teacher Ensemble for Robust Neural Network Distillation. , 2019, , .		5
121	Enhancing ELM-based Facial Image Classification by Exploiting Multiple Facial Views. Procedia Computer Science, 2015, 51, 2814-2821.	1.2	4
122	A review of approximate methods for kernel-based big media data analysis. , 2016, , .		4
123	Neural class-specific regression for face verification. IET Biometrics, 2018, 7, 63-70.	1.6	4
124	Deep Temporal Logistic Bag-of-features for Forecasting High Frequency Limit Order Book Time Series. , 2019, , .		4
125	Improving the Accuracy of Early Exits in Multi-Exit Architectures via Curriculum Learning. , 2021, , .		4
126	Speech Command Recognition in Computationally Constrained Environments with a Quadratic Self-Organized Operational Layer. , 2021, , .		4

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127	Multi-view Regularized Extreme Learning Machine for Human Action Recognition. Lecture Notes in Computer Science, 2014, , 84-94.	1.0	4
128	3D Quantum Cuts for automatic segmentation of porous media in tomography images. Computers and Geosciences, 2022, 159, 105017.	2.0	4
129	Forecasting large-scale circulation regimes using deformable convolutional neural networks and global spatiotemporal climate data. Scientific Reports, 2022, 12, 8395.	1.6	4
130	View-independent human action recognition based on multi-view action images and discriminant learning. , 2013, , .		3
131	Merging linear discriminant analysis with Bag of Words model for human action recognition. , 2015, , .		3
132	Distance-based human action recognition using optimized class representations. Neurocomputing, 2015, 161, 47-55.	3.5	3
133	Laplacian one class extreme learning machines for human action recognition. , 2016, , .		3
134	Combining multi-class maximum margin classification with linear discriminant analysis for human action recognition. , 2016, , .		3
135	On the comparison of random and Hebbian weights for the training of single-hidden layer feedforward neural networks. Expert Systems With Applications, 2017, 83, 177-186.	4.4	3
136	Supervised Domain Adaptation using Graph Embedding. , 2021, , .		3
137	Graph-Embedded Multi-Layer Kernel Ridge Regression for One-Class Classification. Cognitive Computation, 2021, 13, 552-569.	3.6	3
138	Ensembling Object Detectors for Image and Video Data Analysis. , 2021, , .		3
139	Graph convolutional networks. , 2022, , 71-99.		3
140	Graph Embedding With Data Uncertainty. IEEE Access, 2022, 10, 24232-24239.	2.6	3
141	Representative Class Vector Clustering-Based Discriminant Analysis. , 2013, , .		2
142	Object proposals using CNN-based edge filtering. , 2016, , .		2
143	Maximum margin binary classifiers using intrinsic and penalty graphs. , 2016, , .		2
144	Prototype-based class-specific nonlinear subspace learning for large-scale face verification. , 2016, , .		2

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145	Minimum Variance-Embedded Multi-layer Kernel Ridge Regression for One-class Classification. , 2018, , .		2
146	Predicting Jump Arrivals in Stock Prices Using Neural Networks with Limit Order Book Data. SSRN Electronic Journal, 0, , .	0.4	2
147	Less Is More: Deep Learning Using Subjective Annotations For Sentiment Analysis From Social Media. , 2019, , .		2
148	Probabilistic Color Constancy. , 2020, , .		2
149	Incremental Fast Subclass Discriminant Analysis. , 2020, , .		2
150	Adaptive Normalization for Forecasting Limit Order Book Data Using Convolutional Neural Networks. , 2020, , .		2
151	Data Normalization for Bilinear Structures in High-Frequency Financial Time-series. , 2021, , .		2
152	Augmenting Transferred Representations for Stock Classification. , 2021, , .		2
153	Robust Fast Subclass Discriminant Analysis. , 2021, , .		2
154	Exploiting Local Class Information in Extreme Learning Machine. , 2014, , .		2
155	Detecting Faults During Automatic Screwdriving: A Dataset and Use Case of Anomaly Detection for Automatic Screwdriving. Lecture Notes in Mechanical Engineering, 2022, , 224-232.	0.3	2
156	Low-Rank Temporal Attention-Augmented Bilinear Network for financial time-series forecasting. , 2020, , .		2
157	Performance Indicator in Multilinear Compressive Learning. , 2020, , .		2
158	Real-time video surveillance by a hybrid static/active camera mechatronic system. , 2010, , .		1
159	A Bayesian approach for extreme learning machine-based subspace learning. , 2015, , .		1
160	Visual voice activity detection based on spatiotemporal information and bag of words. , 2015, , .		1
161	Hierarchical class-specific kernel discriminant analysis for face verification. , 2016, , .		1
162	Graph-regularized multi-class support vector machines for face and action recognition. , 2016, , .		1

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163	Multi-modal subspace learning with dropout regularization for cross-modal recognition and retrieval. , 2016, , .		1
164	Kernel subclass support vector description for face and human action recognition. , 2016, , .		1
165	Pyramid encoding for fast additive quantization. , 2017, , .		1
166	Probabilistic Class-Specific Discriminant Analysis. IEEE Access, 2020, 8, 183847-183855.	2.6	1
167	Text-To-Image Synthesis Method Evaluation Based On Visual Patterns. , 2020, , .		1
168	Not all domains are equally complex: Adaptive Multi-Domain Learning. , 2021, , .		1
169	Monte Carlo Dropout Ensembles for Robust Illumination Estimation. , 2021, , .		1
170	Visualising deep network time-series representations. Neural Computing and Applications, 2021, 33, 16489-16498.	3.2	1
171	Remote Multilinear Compressive Learning With Adaptive Compression. IEEE Internet of Things Journal, 2022, 9, 6905-6913.	5.5	1
172	Human activity recognition. , 2022, , 341-370.		1
173	Attention-Based Neural Bag-of-Features Learning for Sequence Data. IEEE Access, 2022, 10, 45542-45552.	2.6	1
174	Discriminant action representation for view-invariant person identification. , 2012, , .		0
175	Nearest Class Vector Classification for Large-Scale Learning Problems. , 2015, , .		0
176	Class-specific nonlinear subspace learning based on optimized class representation. , 2015, , .		0
177	Enhancing class discrimination in Kernel Discriminant Analysis. , 2015, , .		0
178	Salient object segmentation based on linearly combined affinity graphs. , 2016, , .		0
179	Supervised subspace learning based on deep randomized networks. , 2016, , .		0
180	Acceleration Approaches for Big Data Analysis. , 2018, , .		0

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181	Class-Based Variational Representation Learning For Robust Image Retrieval. , 2019, , .		0
182	Subset Sampling for Progressive Neural Network Learning. , 2020, , .		0
183	Class mean vector component and discriminant analysis. Pattern Recognition Letters, 2020, 140, 207-213.	2.6	0
184	Human Action Recognition Using Recurrent Bag-of-Features Pooling. Lecture Notes in Computer Science, 2021, , 63-76.	1.0	0
185	Robust Hypersphere-based Weight Imprinting for Few-Shot Learning. , 2021, , .		0
186	Neural Networks for Digital Media Analysis and Description. Communications in Computer and Information Science, 2013, , 1-11.	0.4	0
187	Computational Intelligence Approaches for Digital Media Analysis and Description. Advances in Intelligent Systems and Computing, 2014, , 263-272.	0.5	0
188	Single-Hidden Layer Feedforward Neural Network Training Using Class Geometric Information. Studies in Computational Intelligence, 2016, , 351-364.	0.7	0
189	Progressive and compressive learning. , 2022, , 187-220.		0
190	Object detection and tracking. , 2022, , 243-278.		0