

Frank-Michael Schleif

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

961
citations

516561

16
h-index

552653

26
g-index

109
all docs

109
docs citations

109
times ranked

559
citing authors

#	ARTICLE	IF	CITATIONS
1	Limited Rank Matrix Learning, discriminative dimension reduction and visualization. <i>Neural Networks</i> , 2012, 26, 159-173.	3.3	79
2	Reactive Soft Prototype Computing for Concept Drift Streams. <i>Neurocomputing</i> , 2020, 416, 340-351.	3.5	68
3	Learning vector quantization for (dis-)similarities. <i>Neurocomputing</i> , 2014, 131, 43-51.	3.5	53
4	Indefinite Proximity Learning: A Review. <i>Neural Computation</i> , 2015, 27, 2039-2096.	1.3	53
5	Divergence-based classification in learning vector quantization. <i>Neurocomputing</i> , 2011, 74, 1429-1435.	3.5	46
6	Classification of mass-spectrometric data in clinical proteomics using learning vector quantization methods. <i>Briefings in Bioinformatics</i> , 2007, 9, 129-143.	3.2	38
7	Fuzzy classification by fuzzy labeled neural gas. <i>Neural Networks</i> , 2006, 19, 772-779.	3.3	31
8	EFFICIENT KERNELIZED PROTOTYPE BASED CLASSIFICATION. <i>International Journal of Neural Systems</i> , 2011, 21, 443-457.	3.2	31
9	Metric and non-metric proximity transformations at linear costs. <i>Neurocomputing</i> , 2015, 167, 643-657.	3.5	31
10	Metric learning for sequences in relational LVQ. <i>Neurocomputing</i> , 2015, 169, 306-322.	3.5	21
11	Indefinite Core Vector Machine. <i>Pattern Recognition</i> , 2017, 71, 187-195.	5.1	21
12	Margin-based active learning for LVQ networks. <i>Neurocomputing</i> , 2007, 70, 1215-1224.	3.5	20
13	Comparison of relevance learning vector quantization with other metric adaptive classification methods. <i>Neural Networks</i> , 2006, 19, 610-622.	3.3	19
14	Odor recognition in robotics applications by discriminative time-series modeling. <i>Pattern Analysis and Applications</i> , 2016, 19, 207-220.	3.1	19
15	Prototype based fuzzy classification in clinical proteomics. <i>International Journal of Approximate Reasoning</i> , 2008, 47, 4-16.	1.9	18
16	Support vector classification of proteomic profile spectra based on feature extraction with the bi-orthogonal discrete wavelet transform. <i>Computing and Visualization in Science</i> , 2009, 12, 189-199.	1.2	17
17	Cancer informatics by prototype networks in mass spectrometry. <i>Artificial Intelligence in Medicine</i> , 2009, 45, 215-228.	3.8	16
18	Genetic algorithm for shift-uncertainty correction in 1-D NMR-based metabolite identifications and quantifications. <i>Bioinformatics</i> , 2011, 27, 524-533.	1.8	15

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19	LINEAR TIME RELATIONAL PROTOTYPE BASED LEARNING. International Journal of Neural Systems, 2012, 22, 1250021.	3.2	15
20	Approximation techniques for clustering dissimilarity data. Neurocomputing, 2012, 90, 72-84.	3.5	12
21	Learning interpretable kernelized prototype-based models. Neurocomputing, 2014, 141, 84-96.	3.5	12
22	Adaptive conformal semi-supervised vector quantization for dissimilarity data. Pattern Recognition Letters, 2014, 49, 138-145.	2.6	12
23	Stationarity of Matrix Relevance LVQ. , 2015, , .		12
24	Data Analysis of (Non-)Metric Proximities at Linear Costs. Lecture Notes in Computer Science, 2013, , 59-74.	1.0	12
25	Statistical Classification and Visualization of MALDI-Imaging Data. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , .	0.0	11
26	Large margin linear discriminative visualization by Matrix Relevance Learning. , 2012, , .		11
27	Supervised Batch Neural Gas. Lecture Notes in Computer Science, 2006, , 33-45.	1.0	11
28	Supervised low rank indefinite kernel approximation using minimum enclosing balls. Neurocomputing, 2018, 318, 213-226.	3.5	9
29	Fuzzy Labeled Self-Organizing Map with Label-Adjusted Prototypes. Lecture Notes in Computer Science, 2006, , 46-56.	1.0	9
30	Functional vector quantization by neural maps. , 2009, , .		8
31	Transfer learning extensions for the probabilistic classification vector machine. Neurocomputing, 2020, 397, 320-330.	3.5	8
32	Data-Driven Supervised Learning for Life Science Data. Frontiers in Applied Mathematics and Statistics, 2020, 6, .	0.7	8
33	Generalized Derivative Based Kernelized Learning Vector Quantization. Lecture Notes in Computer Science, 2010, , 21-28.	1.0	8
34	Prototype-Based Classification of Dissimilarity Data. Lecture Notes in Computer Science, 2011, , 185-197.	1.0	8
35	Analysis and Visualization of Proteomic Data by Fuzzy Labeled Self-Organizing Maps. , 2006, , .		7
36	Passive concept drift handling via variations of learning vector quantization. Neural Computing and Applications, 2022, 34, 89-100.	3.2	7

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37	Passive Concept Drift Handling via Momentum Based Robust Soft Learning Vector Quantization. Advances in Intelligent Systems and Computing, 2020, , 200-209.	0.5	7
38	Unleashing Pearson Correlation for Faithful Analysis of Biomedical Data. Lecture Notes in Computer Science, 2009, , 70-91.	1.0	7
39	Relational Extensions of Learning Vector Quantization. Lecture Notes in Computer Science, 2011, , 481-489.	1.0	7
40	Prototype-based fuzzy classification with local relevance for proteomics. Neurocomputing, 2006, 69, 2425-2428.	3.5	6
41	Fuzzy classification using information theoretic learning vector quantization. Neurocomputing, 2008, 71, 3070-3076.	3.5	6
42	Evolving trees for the retrieval of mass spectrometry-based bacteria fingerprints. Knowledge and Information Systems, 2010, 25, 327-343.	2.1	6
43	Incremental probabilistic classification vector machine with linear costs. , 2015, , .		6
44	Generic probabilistic prototype based classification of vectorial and proximity data. Neurocomputing, 2015, 154, 208-216.	3.5	6
45	Sparsification of core set models in non-metric supervised learning. Pattern Recognition Letters, 2020, 129, 1-7.	2.6	6
46	Supervised data analysis and reliability estimation with exemplary application for spectral data. Neurocomputing, 2009, 72, 3590-3601.	3.5	5
47	Correlation-based embedding of pairwise score data. Neurocomputing, 2014, 141, 97-109.	3.5	5
48	Device-Free Passive Human Counting with Bluetooth Low Energy Beacons. Lecture Notes in Computer Science, 2019, , 799-810.	1.0	5
49	Topographic Mapping of Dissimilarity Data. Lecture Notes in Computer Science, 2011, , 1-15.	1.0	5
50	A Conformal Classifier for Dissimilarity Data. International Federation for Information Processing, 2012, , 234-243.	0.4	5
51	The Mathematics of Divergence Based Online Learning in Vector Quantization. Lecture Notes in Computer Science, 2010, , 108-119.	1.0	5
52	Fuzzy Labeled Soft Nearest Neighbor Classification with Relevance Learning. , 0, , .		4
53	Advances in artificial neural networks, machine learning and computational intelligence. Neurocomputing, 2019, 342, 1-5.	3.5	4
54	Supervised Neural Gas for Classification of Functional Data and Its Application to the Analysis of Clinical Proteom Spectra. , 2007, , 1036-1044.		4

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55	Comparison of Cluster Algorithms for the Analysis of Text Data Using Kolmogorov Complexity. Lecture Notes in Computer Science, 2009, , 61-69.	1.0	4
56	Reactive Concept Drift Detection Using Coresets Over Sliding Windows. , 2020, , .		4
57	Structure Preserving Encoding of Non-euclidean Similarity Data. , 2020, , .		4
58	White Box Classification of Dissimilarity Data. Lecture Notes in Computer Science, 2012, , 309-321.	1.0	4
59	Intuitive Clustering of Biological Data. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	3
60	Accelerating kernel clustering for biomedical data analysis. , 2011, , .		3
61	Low-Rank Kernel Space Representations in Prototype Learning. Advances in Intelligent Systems and Computing, 2016, , 341-353.	0.5	3
62	Globular cluster detection in the GAIA survey. Neurocomputing, 2019, 342, 164-171.	3.5	3
63	Dimensionality reduction in the context of dynamic social media data streams. Evolving Systems, 2022, 13, 387-401.	2.4	3
64	Local Metric Adaptation for Soft Nearest Prototype Classification to Classify Proteomic Data. Lecture Notes in Computer Science, 2006, , 290-296.	1.0	3
65	Neural Gas Clustering for Dissimilarity Data with Continuous Prototypes. , 2007, , 539-546.		3
66	Learning Relevant Time Points for Time-Series Data in the Life Sciences. Lecture Notes in Computer Science, 2012, , 531-539.	1.0	3
67	Sparse conformal prediction for dissimilarity data. Annals of Mathematics and Artificial Intelligence, 2015, 74, 95-116.	0.9	2
68	Probabilistic Prototype Classification Using t-norms. Advances in Intelligent Systems and Computing, 2014, , 99-108.	0.5	2
69	Matrix Metric Adaptation Linear Discriminant Analysis of Biomedical Data. Lecture Notes in Computer Science, 2009, , 933-940.	1.0	2
70	MACHINE LEARNING AND SOFT-COMPUTING IN BIOINFORMATICS - A SHORT JOURNEY. , 2006, , .		2
71	Hierarchical Deconvolution of Linear Mixtures of High-Dimensional Mass Spectra in Microbiology. , 2011, , .		2
72	Learning Vector Quantization Classification with Local Relevance Determination for Medical Data. Lecture Notes in Computer Science, 2006, , 603-612.	1.0	2

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73	Analysis of Spectral Data in Clinical Proteomics by Use of Learning Vector Quantizers. <i>Studies in Computational Intelligence</i> , 2008, , 141-167.	0.7	2
74	Indefinite Support Vector Regression. <i>Lecture Notes in Computer Science</i> , 2017, , 313-321.	1.0	2
75	Sparse Transfer Classification for Text Documents. <i>Lecture Notes in Computer Science</i> , 2018, , 169-181.	1.0	2
76	Low-Rank Subspace Override for Unsupervised Domain Adaptation. <i>Lecture Notes in Computer Science</i> , 2020, , 132-147.	1.0	2
77	Advances in artificial neural networks, machine learning, and computational intelligence. <i>Neurocomputing</i> , 2011, 74, 1299-1300.	3.5	1
78	High Dimensional Matrix Relevance Learning. , 2014, , .		1
79	Developments in computational intelligence and machine learning. <i>Neurocomputing</i> , 2015, 169, 185-186.	3.5	1
80	Finding Small Sets of Random Fourier Features for Shift-Invariant Kernel Approximation. <i>Lecture Notes in Computer Science</i> , 2016, , 42-54.	1.0	1
81	Analyzing Dynamic Social Media Data via Random Projection - A New Challenge for Stream Classifiers. , 2020, , .		1
82	Bridging Adversarial and Statistical Domain Transfer via Spectral Adaptation Networks. <i>Lecture Notes in Computer Science</i> , 2021, , 457-473.	1.0	1
83	Classification in Non-stationary Environments Using Coresets over Sliding Windows. <i>Lecture Notes in Computer Science</i> , 2021, , 126-137.	1.0	1
84	Large Scale Indefinite Kernel Fisher Discriminant. <i>Lecture Notes in Computer Science</i> , 2015, , 160-170.	1.0	1
85	Divergence Based Online Learning in Vector Quantization. <i>Lecture Notes in Computer Science</i> , 2010, , 479-486.	1.0	1
86	Sparse Prototype Representation by Core Sets. <i>Lecture Notes in Computer Science</i> , 2013, , 302-309.	1.0	1
87	Hierarchical PCA Using Tree-SOM for the Identification of Bacteria. <i>Lecture Notes in Computer Science</i> , 2009, , 272-280.	1.0	1
88	Secure Semi-supervised Vector Quantization for Dissimilarity Data. <i>Lecture Notes in Computer Science</i> , 2013, , 347-356.	1.0	1
89	Encoding of Indefinite Proximity Data: A Structure Preserving Perspective. <i>Lecture Notes in Computer Science</i> , 2020, , 112-137.	1.0	1
90	Random Projection in the Presence of Concept Drift in Supervised Environments. <i>Lecture Notes in Computer Science</i> , 2020, , 514-524.	1.0	1

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91	Scalable embedding of multiple perspectives for indefinite life-science data analysis. , 2021, , .		1
92	Association Learning in SOMs for Fuzzy-Classification. , 2007, , .		0
93	Sparse Coding Neural Gas for Analysis of Nuclear Magnetic Resonance Spectroscopy. , 2008, , .		0
94	Tanimoto Metric in Tree-SOM for Improved Representation of Mass Spectrometry Data with an Underlying Taxonomic Structure. , 2009, , .		0
95	Sparse kernelized vector quantization with local dependencies. , 2011, , .		0
96	Relevance learning for short high-dimensional time series in the life sciences. , 2012, , .		0
97	Complex-Valued Embeddings of Generic Proximity Data. Lecture Notes in Computer Science, 2021, , 14-23.	1.0	0
98	Accelerating Kernel Neural Gas. Lecture Notes in Computer Science, 2011, , 150-158.	1.0	0
99	Linear Time Heuristics for Topographic Mapping of Dissimilarity Data. Lecture Notes in Computer Science, 2011, , 25-33.	1.0	0
100	Patch Processing for Relational Learning Vector Quantization. Lecture Notes in Computer Science, 2012, , 55-63.	1.0	0
101	Protein Sequence Analysis by Proximities. Methods in Molecular Biology, 2016, 1362, 185-195.	0.4	0
102	Sparsification of Indefinite Learning Models. Lecture Notes in Computer Science, 2018, , 173-183.	1.0	0
103	Analysis of Proteomic Spectral Data by Multi Resolution Analysis and Self-Organizing Maps. Lecture Notes in Computer Science, 2007, , 563-570.	1.0	0