

Michel Verleysen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

4,185
citations

32
h-index

62
g-index

132
ext. papers

4,987
ext. citations

3.7
avg, IF

5.97
L-index

#	Paper	IF	Citations
123	Reading grid for feature selection relevance criteria in regression. <i>Pattern Recognition Letters</i> , 2021 , 148, 92-99	4.7	0
122	Dynamics of the perception and EEG signals triggered by tonic warm and cool stimulation. <i>PLoS ONE</i> , 2020 , 15, e0231698	3.7	6
121	Fast Multiscale Neighbor Embedding. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	3
120	LASSO multi-objective learning algorithm for feature selection. <i>Soft Computing</i> , 2020 , 24, 13209-13217	3.5	5
119	Inference of node attributes from social network assortativity. <i>Neural Computing and Applications</i> , 2020 , 32, 18023-18043	4.8	3
118	About Filter Criteria for Feature Selection in Regression. <i>Lecture Notes in Computer Science</i> , 2019 , 579-590	0.9	2
117	Comparison Between Filter Criteria for Feature Selection in Regression. <i>Lecture Notes in Computer Science</i> , 2019 , 59-71	0.9	
116	Nonlinear Dimensionality Reduction With Missing Data Using Parametric Multiple Imputations. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1166-1179	10.3	9
115	Semi-supervised relevance index for feature selection. <i>Neural Computing and Applications</i> , 2019 , 31, 989-997	4.7	3
114	Smoothness Bias in Relevance Estimators for Feature Selection in Regression. <i>IFIP Advances in Information and Communication Technology</i> , 2018 , 285-294	0.5	
113	Benchmarking of Document Image Analysis Tasks for Palm Leaf Manuscripts from Southeast Asia. <i>Journal of Imaging</i> , 2018 , 4, 43	3.1	18
112	Spatial Filtering of EEG Signals to Identify Periodic Brain Activity Patterns. <i>Lecture Notes in Computer Science</i> , 2018 , 524-533	0.9	2
111	Linear Periodic Discriminant Analysis of Multidimensional Signals. <i>Lecture Notes in Computer Science</i> , 2018 , 476-487	0.9	
110	ICFHR 2018 Competition On Document Image Analysis Tasks for Southeast Asian Palm Leaf Manuscripts 2018 ,		5
109	Character and Text Recognition of Khmer Historical Palm Leaf Manuscripts 2018 ,		8
108	Combining strong sparsity and competitive predictive power with the L-sOPLS approach for biomarker discovery in metabolomics. <i>Metabolomics</i> , 2017 , 13, 1	4.7	3
107	Kernel-based dimensionality reduction using Renyi's Entropy measures of similarity. <i>Neurocomputing</i> , 2017 , 222, 36-46	5.4	12

106	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 712-728	6.1	87
105	A New Khmer Palm Leaf Manuscript Dataset for Document Analysis and Recognition 2017 ,		9
104	Improving individual predictions using social networks assortativity 2017 ,		3
103	Line segmentation for grayscale text images of khmer palm leaf manuscripts 2017 ,		2
102	Multi-step-ahead forecasting using kernel adaptive filtering 2016 ,		2
101	Reinforced Extreme Learning Machines for Fast Robust Regression in the Presence of Outliers. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 3351-3363	10.2	8
100	A Mutual Information estimator for continuous and discrete variables applied to Feature Selection and Classification problems. <i>International Journal of Computational Intelligence Systems</i> , 2016 , 9, 726-733 ^{3,4}		14
99	Line Segmentation Approach for Ancient Palm Leaf Manuscripts Using Competitive Learning Algorithm 2016 ,		6
98	Statistical treatment of 2D NMR COSY spectra in metabolomics: data preparation, clustering-based evaluation of the Metabolomic Informative Content and comparison with 1H-NMR. <i>Metabolomics</i> , 2015 , 11, 1756-1768	4.7	24
97	Multi-scale similarities in stochastic neighbour embedding: Reducing dimensionality while preserving both local and global structure. <i>Neurocomputing</i> , 2015 , 169, 246-261	5.4	38
96	Feature ranking in changing environments where new features are introduced 2015 ,		2
95	Incremental classification of objects in scenes: Application to the delineation of images. <i>Neurocomputing</i> , 2015 , 152, 45-57	5.4	3
94	Estimating mutual information for feature selection in the presence of label noise. <i>Computational Statistics and Data Analysis</i> , 2014 , 71, 832-848	1.6	15
93	The delta test: The 1-NN estimator as a feature selection criterion 2014 ,		5
92	Classification in the presence of label noise: a survey. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 845-69	10.3	683
91	Two key properties of dimensionality reduction methods 2014 ,		12
90	2014 ,		17
89	Pointwise probability reinforcements for robust statistical inference. <i>Neural Networks</i> , 2014 , 50, 124-41	9.1	1

88	Short Review of Dimensionality Reduction Methods Based on Stochastic Neighbour Embedding. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 65-74	0.4	15
87	Mutual information-based feature selection for multilabel classification. <i>Neurocomputing</i> , 2013 , 122, 148-155	5.4	88
86	Feature selection for nonlinear models with extreme learning machines. <i>Neurocomputing</i> , 2013 , 102, 111-124	5.4	58
85	Type 1 and 2 mixtures of Kullback-Leibler divergences as cost functions in dimensionality reduction based on similarity preservation. <i>Neurocomputing</i> , 2013 , 112, 92-108	5.4	54
84	Is mutual information adequate for feature selection in regression?. <i>Neural Networks</i> , 2013 , 48, 1-7	9.1	40
83	Theoretical and empirical study on the potential inadequacy of mutual information for feature selection in classification. <i>Neurocomputing</i> , 2013 , 112, 64-78	5.4	24
82	Unique in the Crowd: The privacy bounds of human mobility. <i>Scientific Reports</i> , 2013 , 3, 1376	4.9	731
81	A graph Laplacian based approach to semi-supervised feature selection for regression problems. <i>Neurocomputing</i> , 2013 , 121, 5-13	5.4	48
80	Distance estimation in numerical data sets with missing values. <i>Information Sciences</i> , 2013 , 240, 115-128	7.7	29
79	Improving projection-based data analysis by feature space transformations 2013 ,		6
78	A Performance Evaluation of Mutual Information Estimators for Multivariate Feature Selection. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 51-63	0.4	5
77	Nonlinear Dimensionality Reduction for Visualization. <i>Lecture Notes in Computer Science</i> , 2013 , 617-622	0.9	5
76	Segmentation with Incremental Classifiers. <i>Lecture Notes in Computer Science</i> , 2013 , 81-90	0.9	
75	Feature selection with missing data using mutual information estimators. <i>Neurocomputing</i> , 2012 , 90, 3-11	5.4	46
74	Weighted conditional random fields for supervised interpatient heartbeat classification. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 241-7	5	126
73	Parameter-insensitive kernel in extreme learning for non-linear support vector regression. <i>Neurocomputing</i> , 2011 , 74, 2526-2531	5.4	68
72	Dimensionality reduction for EEG classification using Mutual Information and SVM 2011 ,		4
71	Shift-invariant similarities circumvent distance concentration in stochastic neighbor embedding and variants. <i>Procedia Computer Science</i> , 2011 , 4, 538-547	1.6	11

70	Mode estimation in high-dimensional spaces with flat-top kernels: Application to image denoising. <i>Neurocomputing</i> , 2011 , 74, 1402-1410	5.4	6
69	Weighted SVMs and Feature Relevance Assessment in Supervised Heart Beat Classification. <i>Communications in Computer and Information Science</i> , 2011 , 212-223	0.3	17
68	Choosing the Metric: A Simple Model Approach. <i>Studies in Computational Intelligence</i> , 2011 , 97-115	0.8	5
67	Feature Selection for Multi-label Classification Problems. <i>Lecture Notes in Computer Science</i> , 2011 , 9-16	0.9	42
66	Graph Laplacian for Semi-supervised Feature Selection in Regression Problems. <i>Lecture Notes in Computer Science</i> , 2011 , 248-255	0.9	7
65	Aircraft Engine Fleet Monitoring Using Self-Organizing Maps and Edit Distance. <i>Lecture Notes in Computer Science</i> , 2011 , 298-307	0.9	5
64	Feature Selection with Mutual Information for Uncertain Data. <i>Lecture Notes in Computer Science</i> , 2011 , 330-341	0.9	8
63	Label Noise-Tolerant Hidden Markov Models for Segmentation: Application to ECGs. <i>Lecture Notes in Computer Science</i> , 2011 , 455-470	0.9	6
62	Dimensionality reduction by rank preservation 2010 ,		3
61	Unsupervised dimensionality reduction: Overview and recent advances 2010 ,		12
60	EEG feature selection using mutual information and support vector machine: A comparative analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4946-9	0.9	11
59	Clustering Patterns of Urban Built-up Areas with Curves of Fractal Scaling Behaviour. <i>Environment and Planning B: Planning and Design</i> , 2010 , 37, 942-954		33
58	A principled approach to image denoising with similarity kernels involving patches. <i>Neurocomputing</i> , 2010 , 73, 1199-1209	5.4	6
57	Scale-independent quality criteria for dimensionality reduction. <i>Pattern Recognition Letters</i> , 2010 , 31, 2248-2257	4.7	48
56	Trajectory Clustering for Vibration Detection in Aircraft Engines. <i>Lecture Notes in Computer Science</i> , 2010 , 362-375	0.9	2
55	Aircraft Engine Health Monitoring Using Self-Organizing Maps. <i>Lecture Notes in Computer Science</i> , 2010 , 405-417	0.9	12
54	Multi-Objective Semi-Supervised Feature Selection and Model Selection Based on Pearson's Correlation Coefficient. <i>Lecture Notes in Computer Science</i> , 2010 , 509-516	0.9	4
53	On the Role and Impact of the Metaparameters in t-distributed Stochastic Neighbor Embedding 2010 , 337-346		4

52	K nearest neighbours with mutual information for simultaneous classification and missing data imputation. <i>Neurocomputing</i> , 2009 , 72, 1483-1493	5.4	126
51	Quality assessment of dimensionality reduction: Rank-based criteria. <i>Neurocomputing</i> , 2009 , 72, 1431-1443	5.4	162
50	Nonlinear data projection on non-Euclidean manifolds with controlled trade-off between trustworthiness and continuity. <i>Neurocomputing</i> , 2009 , 72, 1444-1454	5.4	5
49	Information-theoretic feature selection for functional data classification. <i>Neurocomputing</i> , 2009 , 72, 3580-3589	5.4	40
48	Residual variance estimation in machine learning. <i>Neurocomputing</i> , 2009 , 72, 3692-3703	5.4	22
47	Advances in Feature Selection with Mutual Information. <i>Lecture Notes in Computer Science</i> , 2009 , 52-69	0.9	16
46	Fault Prediction in Aircraft Engines Using Self-Organizing Maps. <i>Lecture Notes in Computer Science</i> , 2009 , 37-44	0.9	15
45	Simbed: Similarity-Based Embedding. <i>Lecture Notes in Computer Science</i> , 2009 , 95-104	0.9	2
44	Mixtures of robust probabilistic principal component analyzers. <i>Neurocomputing</i> , 2008 , 71, 1274-1282	5.4	43
43	Collaborative filtering with interlaced generalized linear models. <i>Neurocomputing</i> , 2008 , 71, 1300-1310	5.4	7
42	Blind source separation based on endpoint estimation with application to the MLSP 2006 data competition. <i>Neurocomputing</i> , 2008 , 72, 47-56	5.4	2
41	On the Risk of Using Rényi's Entropy for Blind Source Separation. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 4611-4620	4.8	11
40	An Unsupervised Gaussian Mixture Classification Mechanism Based on Statistical Learning Analysis 2008 ,		1
39	A Comparative Study of Various Probability Density Estimation Methods for Data Analysis. <i>International Journal of Computational Intelligence Systems</i> , 2008 , 1, 188-201	3.4	7
38	Comparison of some chemometric tools for metabonomics biomarker identification. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2008 , 91, 54-66	3.8	45
37	Multivariate statistics process control for dimensionality reduction in structural assessment. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 155-171	7.8	60
36	An Alternative to Center-Based Clustering Algorithm Via Statistical Learning Analysis. <i>Lecture Notes in Computer Science</i> , 2008 , 693-700	0.9	
35	Improving the Robustness to Outliers of Mixtures of Probabilistic PCAs 2008 , 527-535		3

34	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2007 , 19, 873-886	4.2	155
33	Fast selection of spectral variables with B-spline compression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007 , 86, 208-218	3.8	35
32	Modelling the quality of enantiomeric separations using Mutual Information as an alternative variable selection technique. <i>Analytica Chimica Acta</i> , 2007 , 602, 37-46	6.6	9
31	Robust Bayesian clustering. <i>Neural Networks</i> , 2007 , 20, 129-38	9.1	69
30	Forecasting the CATS benchmark with the Double Vector Quantization method. <i>Neurocomputing</i> , 2007 , 70, 2400-2409	5.4	10
29	High-dimensional delay selection for regression models with mutual information and distance-to-diagonal criteria. <i>Neurocomputing</i> , 2007 , 70, 1265-1275	5.4	11
28	Resampling methods for parameter-free and robust feature selection with mutual information. <i>Neurocomputing</i> , 2007 , 70, 1276-1288	5.4	95
27	Time series prediction competition: The CATS benchmark. <i>Neurocomputing</i> , 2007 , 70, 2325-2329	5.4	31
26	. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 1030-1042	2.8	12
25	A minimum-range approach to blind extraction of bounded sources. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 809-22		21
24	DD-HDS: A method for visualization and exploration of high-dimensional data. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 1265-79		44
23	Is the General Form of Renyi's Entropy a Contrast for Source Separation? 2007 , 129-136		3
22	Information-Theoretic Feature Selection for the Classification of Hysteresis Curves 2007 , 522-529		1
21	Robust probabilistic projections 2006 ,		36
20	A Least Absolute Bound Approach to ICA - Application to the MLSP 2006 Competition. <i>IEEE International Workshop on Machine Learning for Signal Processing</i> , 2006 ,		4
19	Unfolding preprocessing for meaningful time series clustering. <i>Neural Networks</i> , 2006 , 19, 877-88	9.1	15
18	Minimum Support ICA Using Order Statistics. Part II: Performance Analysis. <i>Lecture Notes in Computer Science</i> , 2006 , 270-277	0.9	2
17	Zero-Entropy Minimization for Blind Extraction of Bounded Sources (BEBS). <i>Lecture Notes in Computer Science</i> , 2006 , 747-754	0.9	1

16	Minimum Support ICA Using Order Statistics. Part I: Quasi-range Based Support Estimation. <i>Lecture Notes in Computer Science</i> , 2006 , 262-269	0.9	4
15	A Functional Approach to Variable Selection in Spectrometric Problems. <i>Lecture Notes in Computer Science</i> , 2006 , 11-20	0.9	2
14	Filtering-Free Blind Separation of Correlated Images. <i>Lecture Notes in Computer Science</i> , 2005 , 1091-1099	0.9	2
13	On the entropy minimization of a linear mixture of variables for source separation. <i>Signal Processing</i> , 2005 , 85, 1029-1044	4.4	16
12	Time series forecasting: Obtaining long term trends with self-organizing maps. <i>Pattern Recognition Letters</i> , 2005 , 26, 1795-1808	4.7	40
11	Representation of functional data in neural networks. <i>Neurocomputing</i> , 2005 , 64, 183-210	5.4	71
10	Nonlinear dimensionality reduction of data manifolds with essential loops. <i>Neurocomputing</i> , 2005 , 67, 29-53	5.4	57
9	On the use of self-organizing maps to accelerate vector quantization. <i>Neurocomputing</i> , 2004 , 56, 187-203	5.4	26
8	Nonlinear projection with curvilinear distances: Isomap versus curvilinear distance analysis. <i>Neurocomputing</i> , 2004 , 57, 49-76	5.4	112
7	Prediction of visual perceptions with artificial neural networks in a visual prosthesis for the blind. <i>Artificial Intelligence in Medicine</i> , 2004 , 32, 183-94	7.4	8
6	Double quantization of the regressor space for long-term time series prediction: method and proof of stability. <i>Neural Networks</i> , 2004 , 17, 1169-81	9.1	12
5	On the Kernel Widths in Radial-Basis Function Networks. <i>Neural Processing Letters</i> , 2003 , 18, 139-154	2.4	75
4	A CMOS/SOI Single-input PWM Discriminator for Low-voltage Body-implanted Applications. <i>VLSI Design</i> , 2002 , 15, 469-476		3
3	Nonlinear Projection with the Isotop Method. <i>Lecture Notes in Computer Science</i> , 2002 , 933-938	0.9	8
2	Dimension reduction of technical indicators for the prediction of financial time series - Application to the BEL20 Market Index. <i>European Journal of Economic and Social Systems</i> , 2001 , 15, 31-48		13
1	Placing spline knots in neural networks using splines as activation functions. <i>Neurocomputing</i> , 1997 , 17, 159-166	5.4	2