

Nicolas Vayatis

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,287
citations

567281

15
h-index

395702

33
g-index

62
all docs

62
docs citations

62
times ranked

1100
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective review of offline change point detection methods. <i>Signal Processing</i> , 2020, 167, 107299.	3.7	486
2	Ranking and Empirical Minimization of U-statistics. <i>Annals of Statistics</i> , 2008, 36, .	2.6	161
3	A review of center of pressure (COP) variables to quantify standing balance in elderly people: Algorithms and open access code*. <i>Physiological Reports</i> , 2021, 9, e15067.	1.7	79
4	Prediction and optimization of wave energy converter arrays using a machine learning approach. <i>Renewable Energy</i> , 2016, 97, 504-517.	8.9	57
5	Parallel Gaussian Process Optimization with Upper Confidence Bound and Pure Exploration. <i>Lecture Notes in Computer Science</i> , 2013, , 225-240.	1.3	57
6	Tree-Based Ranking Methods. <i>IEEE Transactions on Information Theory</i> , 2009, 55, 4316-4336.	2.4	36
7	Quantitative Analysis of Dynamic Fault Trees Based on the Coupling of Structure Functions and Monte Carlo Simulation. <i>Quality and Reliability Engineering International</i> , 2016, 32, 7-18.	2.3	28
8	A Non Linear Scoring Approach for Evaluating Balance: Classification of Elderly as Fallers and Non-Fallers. <i>PLoS ONE</i> , 2016, 11, e0167456.	2.5	26
9	Ranking and Scoring Using Empirical Risk Minimization. <i>Lecture Notes in Computer Science</i> , 2005, , 1-15.	1.3	24
10	Template-Based Step Detection with Inertial Measurement Units. <i>Sensors</i> , 2018, 18, 4033.	3.8	23
11	An Automated Recording Method in Clinical Consultation to Rate the Limp in Lower Limb Osteoarthritis. <i>PLoS ONE</i> , 2016, 11, e0164975.	2.5	23
12	The Use of Inertial Measurement Units for the Study of Free Living Environment Activity Assessment: A Literature Review. <i>Sensors</i> , 2020, 20, 5625.	3.8	18
13	EpiBrainRad: an epidemiologic study of the neurotoxicity induced by radiotherapy in high grade glioma patients. <i>BMC Neurology</i> , 2015, 15, 261.	1.8	17
14	Suppressing Epidemics in Networks Using Priority Planning. <i>IEEE Transactions on Network Science and Engineering</i> , 2016, 3, 271-285.	6.4	17
15	On the importance of local dynamics in statokinesigram: A multivariate approach for postural control evaluation in elderly. <i>PLoS ONE</i> , 2018, 13, e0192868.	2.5	17
16	Overlaying Classifiers: A Practical Approach to Optimal Scoring. <i>Constructive Approximation</i> , 2010, 32, 619-648.	3.0	16
17	Ranking data with ordinal labels: optimality and pairwise aggregation. <i>Machine Learning</i> , 2013, 91, 67-104.	5.4	16
18	Fall detection using smart floor sensor and supervised learning. , 2017, 2017, 3445-3448.		15

#	ARTICLE	IF	CITATIONS
19	Preventing falls: the use of machine learning for the prediction of future falls in individuals without history of fall. <i>Journal of Neurology</i> , 2023, 270, 618-631.	3.6	15
20	Adaptive partitioning schemes for bipartite ranking. <i>Machine Learning</i> , 2011, 83, 31-69.	5.4	13
21	Nonparametric Markovian Learning of Triggering Kernels for Mutually Exciting and Mutually Inhibiting Multivariate Hawkes Processes. <i>Lecture Notes in Computer Science</i> , 2014, , 161-176.	1.3	13
22	A Data Set for the Study of Human Locomotion with Inertial Measurements Units. <i>Image Processing on Line</i> , 0, 9, 381-390.	0.0	10
23	Pandemic lockdown, isolation, and exit policies based on machine learning predictions. <i>Production and Operations Management</i> , 2023, 32, 1307-1322.	3.8	10
24	Penalty learning for changepoint detection. , 2017, , .		8
25	Greedy Kernel Change-Point Detection. <i>IEEE Transactions on Signal Processing</i> , 2019, 67, 6204-6214.	5.3	8
26	Revealing posturographic profile of patients with Parkinsonian syndromes through a novel hypothesis testing framework based on machine learning. <i>PLoS ONE</i> , 2021, 16, e0246790.	2.5	8
27	An empirical comparison of learning algorithms for nonparametric scoring: the TreeRank algorithm and other methods. <i>Pattern Analysis and Applications</i> , 2013, 16, 475-496.	4.6	7
28	Effects of bilateral stimulation of the subthalamic nucleus in Parkinson's disease with and without REM sleep behaviour disorder. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, jnnp-2019-320858.	1.9	6
29	Balance Impairment in Radiation Induced Leukoencephalopathy Patients Is Coupled With Altered Visual Attention in Natural Tasks. <i>Frontiers in Neurology</i> , 2019, 9, 1185.	2.4	6
30	Bagging Ranking Trees. , 2009, , .		5
31	A Greedy Approach for Dynamic Control of Diffusion Processes in Networks. , 2015, , .		5
32	The Complementary Role of Activity Context in the Mental Workload Evaluation of Helicopter Pilots: A Multi-tasking Learning Approach. <i>Communications in Computer and Information Science</i> , 2019, , 222-238.	0.5	5
33	An opinion paper on the maintenance of robustness: Towards a multimodal and intergenerational approach using digital twins. <i>Aging Medicine (Milton (N S W))</i> , 2020, 3, 188-194.	2.1	4
34	SEAIR Framework Accounting for a Personalized Risk Prediction Score: Application to the Covid-19 Epidemic. <i>Image Processing on Line</i> , 0, 10, 150-166.	0.0	4
35	Epidemic Models for Personalised COVID-19 Isolation and Exit Policies Using Clinical Risk Predictions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4
36	Supervised Kernel Change Point Detection with Partial Annotations. , 2019, , .		3

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37	Quantitative assessment of consciousness during anesthesia without EEG data. Journal of Clinical Monitoring and Computing, 2021, 35, 993-1005.	1.6	3
38	Sleep apnea syndrome and subthalamic stimulation in Parkinson's disease. Sleep Medicine, 2021, 86, 106-112.	1.6	3
39	Information Diffusion and Rumor Spreading. , 2018, , 651-678.		2
40	Selection of the Best Electroencephalogram Channel to Predict the Depth of Anesthesia. Frontiers in Computational Neuroscience, 2019, 13, 65.	2.1	2
41	Subsampling of Multivariate Time-Vertex Graph Signals. , 2019, , .		2
42	Low Rank Activations for Tensor-Based Convolutional Sparse Coding. , 2020, , .		2
43	Adaptive Estimation of the Optimal ROC Curve and a Bipartite Ranking Algorithm. Lecture Notes in Computer Science, 2009, , 216-231.	1.3	2
44	Multivariate two-sample hypothesis testing through AUC maximization for biomedical applications. , 2020, , .		2
45	An Uncertainty Principle for Lowband Graph Signals. IEEE Signal Processing Letters, 2022, 29, 727-731.	3.6	2
46	A Machine Learning Approach to the Analysis of Wave Energy Converters. , 2015, , .		1
47	Quality Quantification of Evaluated Cross Section Covariances. Nuclear Data Sheets, 2015, 123, 191-195.	2.2	1
48	Spectral bounds in random graphs applied to spreading phenomena and percolation. Advances in Applied Probability, 2018, 50, 480-503.	0.7	1
49	AvancÃ©es rÃ©centes dans le domaine de lâ€™apprentissage dâ€™ordonnancements. Revue D'Intelligence Artificielle, 2011, 25, 345-368.	0.6	1
50	On the Simulation of Offshore Oil Facilities at the System Level.. , 2014, , .		1
51	Local Assessment of Statokinesigram Dynamics in Time: An in-Depth Look at the Scoring Algorithm. Image Processing on Line, 0, 9, 143-157.	0.0	1
52	Applications of concentration inequalities for statistical scoring and ranking problems. ESAIM: Proceedings and Surveys, 2014, 44, 99-109.	0.4	0
53	Optimal Multiple Stopping Rule for Warm-Starting Sequential Selection. , 2019, , .		0
54	Sequential Dynamic Resource Allocation for Epidemic Control. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	Concentration inequalities for two-sample rank processes with application to bipartite ranking. Electronic Journal of Statistics, 2021, 15, .	0.7	0
56	Strong Consistency of Bayesian Estimator Under Discrete Observations and Unknown Transition Density. , 2011, , 145-167.		0
57	A New Framework for the Simulation of Offshore Oil Facilities at the System Level. , 2015, , 45-57.		0
58	Hybrid Modelling for Lifetime Prediction. Lecture Notes in Mechanical Engineering, 2020, , 387-395.	0.4	0