List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Change-point detection in time-series data by relative density-ratio estimation. Neural Networks, 2013, 43, 72-83.	5.9	313
2	Direct importance estimation for covariate shift adaptation. Annals of the Institute of Statistical Mathematics, 2008, 60, 699-746.	0.8	273
3	Semi-supervised local Fisher discriminant analysis forÂdimensionality reduction. Machine Learning, 2010, 78, 35-61.	5.4	232
4	High-Dimensional Feature Selection by Feature-Wise Kernelized Lasso. Neural Computation, 2014, 26, 185-207.	2.2	222
5	Statistical outlier detection using direct density ratio estimation. Knowledge and Information Systems, 2011, 26, 309-336.	3.2	135
6	Sequential changeâ€point detection based on direct densityâ€ratio estimation. Statistical Analysis and Data Mining, 2012, 5, 114-127.	2.8	131
7	Tensor Networks for Dimensionality Reduction and Large-scale Optimization: Part 2 Applications and Future Perspectives. Foundations and Trends in Machine Learning, 2017, 9, 249-429.	69.0	128
8	Application of Covariate Shift Adaptation Techniques in Brain–Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2010, 57, 1318-1324.	4.2	108
9	Information-Theoretic Semi-Supervised Metric Learning via Entropy Regularization. Neural Computation, 2014, 26, 1717-1762.	2.2	92
10	The Degrees of Freedom of Partial Least Squares Regression. Journal of the American Statistical Association, 2011, 106, 697-705.	3.1	74
11	Relative Density-Ratio Estimation for Robust Distribution Comparison. Neural Computation, 2013, 25, 1324-1370.	2.2	74
12	Density-ratio matching under the Bregman divergence: a unified framework of density-ratio estimation. Annals of the Institute of Statistical Mathematics, 2012, 64, 1009-1044.	0.8	72
13	Subspace Information Criterion for Model Selection. Neural Computation, 2001, 13, 1863-1889.	2.2	61
14	Pool-based active learning in approximate linear regression. Machine Learning, 2009, 75, 249-274.	5.4	60
15	Dual-Augmented Lagrangian Method for Efficient Sparse Reconstruction. IEEE Signal Processing Letters, 2009, 16, 1067-1070.	3.6	58
16	Importance-weighted least-squares probabilistic classifier for covariate shift adaptation with application to human activity recognition. Neurocomputing, 2012, 80, 93-101.	5.9	55
17	Class Prior Estimation from Positive and Unlabeled Data. IEICE Transactions on Information and Systems, 2014, E97.D, 1358-1362.	0.7	51
18	Tree-Based Ensemble Multi-Task Learning Method for Classification and Regression. IEICE Transactions on Information and Systems, 2014, E97.D, 1677-1681.	0.7	50

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19	Density-Difference Estimation. Neural Computation, 2013, 25, 2734-2775.	2.2	49
20	Semi-supervised learning of class balance under class-prior change by distribution matching. Neural Networks, 2014, 50, 110-119.	5.9	48
21	Dimensionality reduction for density ratio estimation in high-dimensional spaces. Neural Networks, 2010, 23, 44-59.	5.9	47
22	Statistical analysis of kernel-based least-squares density-ratio estimation. Machine Learning, 2012, 86, 335-367.	5.4	47
23	Class-prior estimation for learning from positive and unlabeled data. Machine Learning, 2017, 106, 463-492.	5.4	47
24	Sufficient Dimension Reduction via Squared-Loss Mutual Information Estimation. Neural Computation, 2013, 25, 725-758.	2.2	45
25	Semi-supervised speaker identification under covariate shift. Signal Processing, 2010, 90, 2353-2361.	3.7	40
26	Variational Bayesian sparse additive matrix factorization. Machine Learning, 2013, 92, 319-347.	5.4	37
27	Learning Efficient Tensor Representations with Ring-structured Networks. , 2019, , .		36
28	A least-squares approach to anomaly detection in static and sequential data. Pattern Recognition Letters, 2014, 40, 36-40.	4.2	33
29	Direct density-ratio estimation with dimensionality reduction via least-squares hetero-distributional subspace search. Neural Networks, 2011, 24, 183-198.	5.9	32
30	Artist Agent: A Reinforcement Learning Approach to Automatic Stroke Generation in Oriental Ink Painting. IEICE Transactions on Information and Systems, 2013, E96.D, 1134-1144.	0.7	32
31	Direct Divergence Approximation between Probability Distributions and Its Applications in Machine Learning. Journal of Computing Science and Engineering, 2013, 7, 99-111.	0.6	32
32	Analysis and improvement of policy gradient estimation. Neural Networks, 2012, 26, 118-129.	5.9	31
33	Machine Learning with Squared-Loss Mutual Information. Entropy, 2013, 15, 80-112.	2.2	31
34	Least-Squares Independent Component Analysis. Neural Computation, 2011, 23, 284-301.	2.2	29
35	Health Checkup and Telemedical Intervention Program for Preventive Medicine in Developing Countries: Verification Study. Journal of Medical Internet Research, 2015, 17, e2.	4.3	29
36	Single-shot surface profiling by local model fitting. Applied Optics, 2006, 45, 7999.	2.1	26

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37	Averaging covariance matrices for EEG signal classification based on the CSP: An empirical study. , 2015, , .		26
38	\$f\$-Divergence Estimation and Two-Sample Homogeneity Test Under Semiparametric Density-Ratio Models. IEEE Transactions on Information Theory, 2012, 58, 708-720.	2.4	25
39	Information-Maximization Clustering Based on Squared-Loss Mutual Information. Neural Computation, 2014, 26, 84-131.	2.2	25
40	Semi-supervised AUC optimization based on positive-unlabeled learning. Machine Learning, 2018, 107, 767-794.	5.4	25
41	Geodesic Gaussian kernels for value function approximation. Autonomous Robots, 2008, 25, 287-304.	4.8	23
42	Canonical dependency analysis based on squared-loss mutual information. Neural Networks, 2012, 34, 46-55.	5.9	23
43	Geometry-aware principal component analysis for symmetric positive definite matrices. Machine Learning, 2017, 106, 493-522.	5.4	23
44	Artificial Neural Variability for Deep Learning: On Overfitting, Noise Memorization, and Catastrophic Forgetting. Neural Computation, 2021, 33, 2163-2192.	2.2	23
45	Trading Variance Reduction with Unbiasedness: The Regularized Subspace Information Criterion for Robust Model Selection in Kernel Regression. Neural Computation, 2004, 16, 1077-1104.	2.2	22
46	Theoretical and Experimental Analyses of Tensor-Based Regression and Classification. Neural Computation, 2016, 28, 686-715.	2.2	21
47	Incremental Active Learning for Optimal Generalization. Neural Computation, 2000, 12, 2909-2940.	2.2	20
48	Multi-parametric solution-path algorithm for instance-weighted support vector machines. Machine Learning, 2012, 88, 297-330.	5.4	20
49	Efficient Sample Reuse in Policy Gradients with Parameter-Based Exploration. Neural Computation, 2013, 25, 1512-1547.	2.2	20
50	Active Feature Acquisition with Supervised Matrix Completion. , 2018, , .		20
51	A new algorithm of non-Gaussian component analysis with radial kernel functions. Annals of the Institute of Statistical Mathematics, 2007, 59, 57-75.	0.8	19
52	A batch ensemble approach to active learning with model selection. Neural Networks, 2008, 21, 1278-1286.	5.9	19
53	Least-squares two-sample test. Neural Networks, 2011, 24, 735-751.	5.9	17
54	Reward-Weighted Regression with Sample Reuse for Direct Policy Search in Reinforcement Learning. Neural Computation, 2011, 23, 2798-2832.	2.2	17

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55	Target-less camera-LiDAR extrinsic calibration using a bagged dependence estimator. , 2016, , .		17
56	Using the variogram for vector outlier screening: application to feature-based image registration. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1871-1880.	2.8	17
57	Direct Learning of Sparse Changes in Markov Networks by Density Ratio Estimation. Neural Computation, 2014, 26, 1169-1197.	2.2	16
58	A unified method for optimizing linear image restoration filters. Signal Processing, 2002, 82, 1773-1787.	3.7	15
59	Learning under nonstationarity: covariate shift and classâ€balance change. Wiley Interdisciplinary Reviews: Computational Statistics, 2013, 5, 465-477.	3.9	15
60	Statistical outlier detection for diagnosis of cyber attacks in power state estimation. , 2016, , .		15
61	Spatiotemporal dynamics of odor representations in the human brain revealed by EEG decoding. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114966119.	7.1	15
62	Bias Reduction and Metric Learning for Nearest-Neighbor Estimation of Kullback-Leibler Divergence. Neural Computation, 2018, 30, 1930-1960.	2.2	14
63	Model-based policy gradients with parameter-based exploration by least-squares conditional density estimation. Neural Networks, 2014, 57, 128-140.	5.9	13
64	Bandit-Based Task Assignment for Heterogeneous Crowdsourcing. Neural Computation, 2015, 27, 2447-2475.	2.2	13
65	Semi-supervised information-maximization clustering. Neural Networks, 2014, 57, 103-111.	5.9	12
66	Convex formulation of multiple instance learning from positive and unlabeled bags. Neural Networks, 2018, 105, 132-141.	5.9	12
67	Theoretical and Experimental Evaluation of the Subspace Information Criterion. Machine Learning, 2002, 48, 25-50.	5.4	11
68	Computational complexity of kernel-based density-ratio estimation: a condition number analysis. Machine Learning, 2013, 90, 431-460.	5.4	11
69	Feature Selection via <i></i> 1-Penalized Squared-Loss Mutual Information. IEICE Transactions on Information and Systems, 2013, E96.D, 1513-1524.	0.7	11
70	Computationally Efficient Estimation of Squared-Loss Mutual Information with Multiplicative Kernel Models. IEICE Transactions on Information and Systems, 2014, E97.D, 968-971.	0.7	11
71	Computationally Efficient Class-Prior Estimation under Class Balance Change Using Energy Distance. IEICE Transactions on Information and Systems, 2016, E99.D, 176-186.	0.7	11
72	Active deep Q-learning with demonstration. Machine Learning, 2020, 109, 1699-1725.	5.4	11

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73	A Feature-Driven Active Framework for Ultrasound-Based Brain Shift Compensation. Lecture Notes in Computer Science, 2018, , 30-38.	1.3	11
74	SemiCCA: Efficient Semi-supervised Learning of Canonical Correlations. IPSJ Online Transactions, 2013, 6, 37-44.	0.1	10
75	Importance-weighted covariance estimation for robust common spatial pattern. Pattern Recognition Letters, 2015, 68, 139-145.	4.2	10
76	Model-based reinforcement learning with dimension reduction. Neural Networks, 2016, 84, 1-16.	5.9	10
77	ECG-Based Concentration Recognition With Multi-Task Regression. IEEE Transactions on Biomedical Engineering, 2019, 66, 101-110.	4.2	10
78	Classification From Pairwise Similarities/Dissimilarities and Unlabeled Data via Empirical Risk Minimization. Neural Computation, 2021, 33, 1234-1268.	2.2	10
79	Theory and Algorithm for Learning with Dissimilarity Functions. Neural Computation, 2009, 21, 1459-1484.	2.2	9
80	On Kernel Parameter Selection in Hilbert-Schmidt Independence Criterion. IEICE Transactions on Information and Systems, 2012, E95.D, 2564-2567.	0.7	9
81	Modal Regression via Direct Log-Density Derivative Estimation. Lecture Notes in Computer Science, 2016, , 108-116.	1.3	9
82	Support consistency of direct sparse-change learning in Markov networks. Annals of Statistics, 2017, 45, .	2.6	9
83	Classification from Triplet Comparison Data. Neural Computation, 2020, 32, 659-681.	2.2	9
84	On the Applicability of Registration Uncertainty. Lecture Notes in Computer Science, 2019, , 410-419.	1.3	9
85	Direct Approximation of Quadratic Mutual Information and Its Application to Dependence-Maximization Clustering. IEICE Transactions on Information and Systems, 2013, E96.D, 2282-2285.	0.7	8
86	Direct Density Ratio Estimation with Convolutional Neural Networks with Application in Outlier Detection. IEICE Transactions on Information and Systems, 2015, E98.D, 1073-1079.	0.7	8
87	Cross-Domain Matching with Squared-Loss Mutual Information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1764-1776.	13.9	8
88	Conditional Density Estimation with Dimensionality Reduction via Squared-Loss Conditional Entropy Minimization. Neural Computation, 2015, 27, 228-254.	2.2	8
89	Least-squares independence regression for non-linear causal inference under non-Gaussian noise. Machine Learning, 2014, 96, 249-267.	5.4	7
90	Direct Estimation of the Derivative of Quadratic Mutual Information with Application in Supervised Dimension Reduction. Neural Computation, 2017, 29, 2076-2122.	2.2	7

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91	Homotopy continuation approaches for robust SV classification and regression. Machine Learning, 2017, 106, 1009-1038.	5.4	7
92	Boosting and margin theory. Frontiers of Electrical and Electronic Engineering, 2012, 7, 127-133.	0.5	6
93	Clustering Unclustered Data: Unsupervised Binary Labeling of Two Datasets Having Different Class Balances. , 2013, , .		6
94	Direct Density Derivative Estimation. Neural Computation, 2016, 28, 1101-1140.	2.2	6
95	Good arm identification via bandit feedback. Machine Learning, 2019, 108, 721-745.	5.4	6
96	Principled analytic classifier for positive-unlabeled learning via weighted integral probability metric. Machine Learning, 2020, 109, 513-532.	5.4	6
97	Constraint learning for control tasks with limited duration barrier functions. Automatica, 2021, 127, 109504.	5.0	6
98	Constrained Least-Squares Density-Difference Estimation. IEICE Transactions on Information and Systems, 2014, E97.D, 1822-1829.	0.7	5
99	Trial and Error: Using Previous Experiences as Simulation Models in Humanoid Motor Learning. IEEE Robotics and Automation Magazine, 2016, 23, 96-105.	2.0	5
100	Binary classification with ambiguous training data. Machine Learning, 2020, 109, 2369-2388.	5.4	5
101	Predictive Approaches for Low-Cost Preventive Medicine Program in Developing Countries. , 2015, , .		5
102	A Multipurpose Linear Component Analysis Method Based on Modulated Hebb-Oja Learning Rule. IEEE Signal Processing Letters, 2008, 15, 677-680.	3.6	4
103	Winning the Kaggle Algorithmic Trading Challenge with the Composition of Many Models and Feature Engineering. IEICE Transactions on Information and Systems, 2013, E96.D, 742-745.	0.7	4
104	Statistical Analysis of Distance Estimators with Density Differences and Density Ratios. Entropy, 2014, 16, 921-942.	2.2	4
105	Direct conditional probability density estimation with sparse feature selection. Machine Learning, 2015, 100, 161-182.	5.4	4
106	Regularized Multitask Learning for Multidimensional Log-Density Gradient Estimation. Neural Computation, 2016, 28, 1388-1410.	2.2	4
107	On Generalization Performance and Non-Convex Optimization of Extended ν-Support Vector Machine. New Generation Computing, 2009, 27, 259-279.	3.3	3
108	Noise adaptive optimization of matrix initialization for frequency-domain independent component analysis. , 2013, 23, 1-8.		3

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109	Lung lesion detection in FDG-PET/CT with Gaussian process regression. , 2017, , .		3
110	Stochastic Multichannel Ranking with Brain Dynamics Preferences. Neural Computation, 2020, 32, 1499-1530.	2.2	3
111	Semisupervised Ordinal Regression Based on Empirical Risk Minimization. Neural Computation, 2021, 33, 3361-3412.	2.2	3
112	Multiwavelength-integrated local model fitting method for interferometric surface profiling. Applied Optics, 2012, 51, 6700.	1.8	2
113	Improved algorithm for multiwavelength single-shot interferometric surface profiling: speeding up the multiwavelength-integrated local model fitting method by local information sharing. Applied Optics, 2013, 52, 4042.	1.8	2
114	Salient Object Detection Based on Direct Density-ratio Estimation. IPSJ Online Transactions, 2013, 6, 96-103.	0.1	2
115	Unsupervised Dimension Reduction via Least-Squares Quadratic Mutual Information. IEICE Transactions on Information and Systems, 2014, E97.D, 2806-2809.	0.7	2
116	A fault detection technique for the steel manufacturing process based on a normal pattern library. IFAC-PapersOnLine, 2015, 48, 871-876.	0.9	2
117	Registration of infrared transmission images using squared-loss mutual information. Precision Engineering, 2015, 39, 187-193.	3.4	2
118	Dependence maximization localization: a novel approach to 2D street-map-based robot localization. Advanced Robotics, 2016, 30, 1431-1445.	1.8	2
119	An Online Policy Gradient Algorithm for Markov Decision Processes with Continuous States and Actions. Neural Computation, 2016, 28, 563-593.	2.2	2
120	Clipped Matrix Completion: A Remedy for Ceiling Effects. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5151-5158.	4.9	2
121	Early Stopping Heuristics in Pool-Based Incremental Active Learning for Least-Squares Probabilistic Classifier. IEICE Transactions on Information and Systems, 2012, E95.D, 2065-2073.	0.7	1
122	Improving importance estimation in pool-based batch active learning for approximate linear regression. Neural Networks, 2012, 36, 73-82.	5.9	1
123	Designing Various Multivariate Analysis at Will via Generalized Pairwise Expression. IPSJ Online Transactions, 2013, 6, 45-54.	0.1	1
124	Sufficient Dimension Reduction via Direct Estimation of the Gradients of Logarithmic Conditional Densities. Neural Computation, 2018, 30, 477-504.	2.2	1
125	Millionaire: a hint-guided approach for crowdsourcing. Machine Learning, 2019, 108, 831-858.	5.4	1
126	Information-Theoretic Representation Learning for Positive-Unlabeled Classification. Neural Computation, 2021, 33, 244-268.	2.2	1

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127	Direction Matters: On Influence-Preserving Graph Summarization and Max-Cut Principle for Directed Graphs. Neural Computation, 2021, 33, 2128-2162.	2.2	1
128	Positive-Unlabeled Classification under Class Prior Shift and Asymmetric Error., 2019,, 271-279.		1
129	Introduction to the Special Section on the 2nd Asia Conference on Machine Learning (ACML 2010). ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-1.	4.5	0
130	Multi-Task Approach to Reinforcement Learning for Factored-State Markov Decision Problems. IEICE Transactions on Information and Systems, 2012, E95.D, 2426-2437.	0.7	0
131	Computationally Efficient Multi-Label Classification by Least-Squares Probabilistic Classifiers. IEICE Transactions on Information and Systems, 2013, E96.D, 1871-1874.	0.7	0
132	Introduction: special issue of selected papers of ACML 2013. Machine Learning, 2015, 99, 165-167.	5.4	0
133	Online Direct Density-Ratio Estimation Applied to Inlier-Based Outlier Detection. Neural Computation, 2015, 27, 1899-1914.	2.2	0

134 Foreword: special issue for the journal track of the 8th Asian conference on machine learning (ACML) Tj ETQq0 0 0 ggβT /Overlock 10 Tf

135	Introduction: special issue of selected papers from ACML 2015. Machine Learning, 2017, 106, 459-461.	5.4	0
136	Stochastic Divergence Minimization for Biterm Topic Models. IEICE Transactions on Information and Systems, 2018, E101.D, 668-677.	0.7	0
137	Foreword: special issue for the journal track of the 10th Asian Conference on Machine Learning (ACML 2018). Machine Learning, 2019, 108, 717-719.	5.4	0
138	Unsupervised key frame selection using information theory and colour histogram difference. International Journal of Business Intelligence and Data Mining, 2020, 16, 324.	0.2	0
139	Polynomial-Time Algorithms for Multiple-Arm Identification with Full-Bandit Feedback. Neural Computation, 2020, 32, 1733-1773.	2.2	0