

Ivor Wai-Hung Tsang

List of Publications by Year in descending order

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134
papers

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76326

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39675

94
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135
all docs

135
docs citations

135
times ranked

8446
citing authors

#	ARTICLE	IF	CITATIONS
1	Domain Adaptation via Transfer Component Analysis. IEEE Transactions on Neural Networks, 2011, 22, 199-210.	4.2	3,145
2	Domain Transfer Multiple Kernel Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 465-479.	13.9	509
3	Flexible Manifold Embedding: A Framework for Semi-Supervised and Unsupervised Dimension Reduction. IEEE Transactions on Image Processing, 2010, 19, 1921-1932.	9.8	439
4	Learning With Augmented Features for Supervised and Semi-Supervised Heterogeneous Domain Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1134-1148.	13.9	355
5	Visual Event Recognition in Videos by Learning from Web Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1667-1680.	13.9	349
6	Laplacian Sparse Coding, Hypergraph Laplacian Sparse Coding, and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 92-104.	13.9	316
7	The Pre-Image Problem in Kernel Methods. IEEE Transactions on Neural Networks, 2004, 15, 1517-1525.	4.2	311
8	Local features are not lonely – Laplacian sparse coding for image classification. , 2010, , .		311
9	Region-Based Saliency Detection and Its Application in Object Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 769-779.	8.3	268
10	Domain Adaptation From Multiple Sources: A Domain-Dependent Regularization Approach. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 504-518.	11.3	249
11	Spectral Embedded Clustering: A Framework for In-Sample and Out-of-Sample Spectral Clustering. IEEE Transactions on Neural Networks, 2011, 22, 1796-1808.	4.2	246
12	Domain adaptation from multiple sources via auxiliary classifiers. , 2009, , .		201
13	Kernel Sparse Representation for Image Classification and Face Recognition. Lecture Notes in Computer Science, 2010, , 1-14.	1.3	192
14	The Emerging "Big Dimensionality". IEEE Computational Intelligence Magazine, 2014, 9, 14-26.	3.2	188
15	Memetic Search With Interdomain Learning: A Realization Between CVRP and CARP. IEEE Transactions on Evolutionary Computation, 2015, 19, 644-658.	10.0	171
16	Learning Category-Specific Dictionary and Shared Dictionary for Fine-Grained Image Categorization. IEEE Transactions on Image Processing, 2014, 23, 623-634.	9.8	170
17	Sparse Representation With Kernels. IEEE Transactions on Image Processing, 2013, 22, 423-434.	9.8	159
18	Auto-weighted multi-view clustering via kernelized graph learning. Pattern Recognition, 2019, 88, 174-184.	8.1	156

#	ARTICLE	IF	CITATIONS
19	Generalized Core Vector Machines. IEEE Transactions on Neural Networks, 2006, 17, 1126-1140.	4.2	150
20	Fusing Images With Different Focuses Using Support Vector Machines. IEEE Transactions on Neural Networks, 2004, 15, 1555-1561.	4.2	125
21	Simpler core vector machines with enclosing balls. , 2007, , .		125
22	Soft Margin Multiple Kernel Learning. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 749-761.	11.3	113
23	Survey on Multi-Output Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 31, 1-21.	11.3	107
24	Maximum Margin Clustering Made Practical. IEEE Transactions on Neural Networks, 2009, 20, 583-596.	4.2	94
25	Visual event recognition in videos by learning from web data. , 2010, , .		89
26	Memes as building blocks: a case study on evolutionary optimization + transfer learning for routing problems. Memetic Computing, 2015, 7, 159-180.	4.0	87
27	Learning word dependencies in text by means of a deep recurrent belief network. Knowledge-Based Systems, 2016, 108, 144-154.	7.1	86
28	A Hybrid PSO-BFGS Strategy for Global Optimization of Multimodal Functions. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1003-1014.	5.0	76
29	Metric Learning for Multi-Output Tasks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 408-422.	13.9	74
30	Text-based image retrieval using progressive multi-instance learning. , 2011, , .		66
31	Principal Graph and Structure Learning Based on Reversed Graph Embedding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2227-2241.	13.9	65
32	Multilabel Prediction via Cross-View Search. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4324-4338.	11.3	61
33	Tag-based web photo retrieval improved by batch mode re-tagging. , 2010, , .		60
34	Spectral Embedded Hashing for Scalable Image Retrieval. IEEE Transactions on Cybernetics, 2014, 44, 1180-1190.	9.5	59
35	Deep Learning From Noisy Image Labels With Quality Embedding. IEEE Transactions on Image Processing, 2019, 28, 1909-1922.	9.8	58
36	A Convex Method for Locating Regions of Interest with Multi-instance Learning. Lecture Notes in Computer Science, 2009, , 15-30.	1.3	58

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37	Co-Labeling for Multi-View Weakly Labeled Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1113-1125.	13.9	55
38	Maximum margin clustering made practical. , 2007, , .		53
39	A Feature Selection Method for Multivariate Performance Measures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2051-2063.	13.9	53
40	Unseen Land Cover Classification from High-Resolution Orthophotos Using Integration of Zero-Shot Learning and Convolutional Neural Networks. Remote Sensing, 2020, 12, 1676.	4.0	51
41	Textual Query of Personal Photos Facilitated by Large-Scale Web Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1022-1036.	13.9	50
42	Laplacian Embedded Regression for Scalable Manifold Regularization. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 902-915.	11.3	49
43	Multi-layer group sparse coding — For concurrent image classification and annotation. , 2011, , .		47
44	Tag-Based Image Retrieval Improved by Augmented Features and Group-Based Refinement. IEEE Transactions on Multimedia, 2012, 14, 1057-1067.	7.2	46
45	Improving Web Image Search by Bag-Based Reranking. IEEE Transactions on Image Processing, 2011, 20, 3280-3290.	9.8	45
46	Efficient Hyperkernel Learning Using Second-Order Cone Programming. IEEE Transactions on Neural Networks, 2006, 17, 48-58.	4.2	44
47	Large-Scale Maximum Margin Discriminant Analysis Using Core Vector Machines. IEEE Transactions on Neural Networks, 2008, 19, 610-624.	4.2	44
48	Extracting discriminative concepts for domain adaptation in text mining. , 2009, , .		43
49	Familial Clustering for Weakly-Labeled Android Malware Using Hybrid Representation Learning. IEEE Transactions on Information Forensics and Security, 2020, 15, 3401-3414.	6.9	43
50	Feature Weighting via Optimal Thresholding for Video Analysis. , 2013, , .		42
51	Incremental Subgraph Feature Selection for Graph Classification. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 128-142.	5.7	42
52	SVDD-Based Pattern Denoising. Neural Computation, 2007, 19, 1919-1938.	2.2	39
53	Combating Negative Transfer From Predictive Distribution Differences. IEEE Transactions on Cybernetics, 2013, 43, 1153-1165.	9.5	39
54	Minimax Sparse Logistic Regression for Very High-Dimensional Feature Selection. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1609-1622.	11.3	38

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55	VR-SGD: A Simple Stochastic Variance Reduction Method for Machine Learning. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 188-202.	5.7	38
56	Feature Disentangling Machine - A Novel Approach of Feature Selection and Disentangling in Facial Expression Analysis. Lecture Notes in Computer Science, 2014, , 151-166.	1.3	37
57	Transductive Ordinal Regression. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1074-1086.	11.3	36
58	Concurrent Single-Label Image Classification and Annotation via Efficient Multi-Layer Group Sparse Coding. IEEE Transactions on Multimedia, 2014, 16, 762-771.	7.2	32
59	Efficient Optimization of Performance Measures by Classifier Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1370-1382.	13.9	31
60	Late Fusion via Subspace Search With Consistency Preservation. IEEE Transactions on Image Processing, 2019, 28, 518-528.	9.8	31
61	Domain Adaption via Feature Selection on Explicit Feature Map. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1180-1190.	11.3	30
62	Matching Pursuit LASSO Part I: Sparse Recovery Over Big Dictionary. IEEE Transactions on Signal Processing, 2015, 63, 727-741.	5.3	29
63	DEFEATnetâ€™A Deep Conventional Image Representation for Image Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 494-505.	8.3	29
64	High-order Proximity Preserving Information Network Hashing. , 2018, , .		28
65	A Class of Single-Class Minimax Probability Machines for Novelty Detection. IEEE Transactions on Neural Networks, 2007, 18, 778-785.	4.2	27
66	An evolutionary search paradigm that learns with past experiences. , 2012, , .		27
67	â€™Who Likes What and, Why?â€™ Insights into Modeling Usersâ€™ Personality Based on Image â€™Likesâ€™. IEEE Transactions on Affective Computing, 2018, 9, 130-143.	8.3	26
68	Objective-Guided Image Annotation. IEEE Transactions on Image Processing, 2013, 22, 1585-1597.	9.8	25
69	Discovering Low-Rank Shared Concept Space for Adapting Text Mining Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1284-1297.	13.9	25
70	Online Heterogeneous Transfer by Hedge Ensemble of Offline and Online Decisions. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-12.	11.3	24
71	Using large-scale web data to facilitate textual query based retrieval of consumer photos. , 2009, , .		23
72	A Unified Feature Selection Framework for Graph Embedding on High Dimensional Data. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1465-1477.	5.7	22

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73	Progressive Stochastic Learning for Noisy Labels. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5136-5148.	11.3	21
74	Error Correcting Input and Output Hashing. IEEE Transactions on Cybernetics, 2019, 49, 781-791.	9.5	20
75	Discrete Ranking-based Matrix Factorization with Self-Paced Learning. , 2018, , .		18
76	Relevance vector machine based infinite decision agent ensemble learning for credit risk analysis. Expert Systems With Applications, 2012, 39, 4947-4953.	7.6	17
77	Transfer Ordinal Label Learning. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1863-1876.	11.3	15
78	Hyperspectral Imagery Classification via Stochastic HHSVMs. IEEE Transactions on Image Processing, 2019, 28, 577-588.	9.8	15
79	SimpleNPKL. , 2009, , .		14
80	Event Detection Using Multi-level Relevance Labels and Multiple Features. , 2014, , .		14
81	Generalized Multiple Kernel Learning With Data-Dependent Priors. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1134-1148.	11.3	14
82	On the Convergence of a Family of Robust Losses for Stochastic Gradient Descent. Lecture Notes in Computer Science, 2016, , 665-680.	1.3	14
83	A unified probabilistic framework for robust manifold learning and embedding. Machine Learning, 2017, 106, 627-650.	5.4	14
84	Towards Faster Vehicle Routing by Transferring Knowledge From Customer Representation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 952-965.	8.0	14
85	Pareto Rank Learning in Multi-objective Evolutionary Algorithms. , 2012, , .		13
86	Co-labeling: A New Multi-view Learning Approach for Ambiguous Problems. , 2012, , .		13
87	Online Product Quantization. IEEE Transactions on Knowledge and Data Engineering, 2018, , 1-1.	5.7	13
88	Automatic image tagging via category label and web data. , 2010, , .		12
89	Efficient federated multi-view learning. Pattern Recognition, 2022, 131, 108817.	8.1	12
90	Healing Sample Selection Bias by Source Classifier Selection. , 2011, , .		11

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91	Understanding Deep Representations Learned in Modeling Users Likes. IEEE Transactions on Image Processing, 2016, 25, 3762-3774.	9.8	11
92	Making Trillion Correlations Feasible in Feature Grouping and Selection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2472-2486.	13.9	11
93	Maximum Penalized Likelihood Kernel Regression for Fast Adaptation. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1372-1381.	3.2	10
94	Matching Pursuit LASSO Part II: Applications and Sparse Recovery Over Batch Signals. IEEE Transactions on Signal Processing, 2015, 63, 742-753.	5.3	10
95	A Data-Analytics Approach for Enterprise Resilience. IEEE Intelligent Systems, 2019, 34, 6-18.	4.0	10
96	Objects co-segmentation: Propagated from simpler images. , 2015, , .		9
97	Partial Hash Update via Hamming Subspace Learning. IEEE Transactions on Image Processing, 2017, 26, 1939-1951.	9.8	9
98	Predictive Distribution Matching SVM for Multi-domain Learning. Lecture Notes in Computer Science, 2010, , 231-247.	1.3	9
99	Defragging Subgraph Features for Graph Classification. , 2015, , .		9
100	Incorporating the Loss Function Into Discriminative Clustering of Structured Outputs. IEEE Transactions on Neural Networks, 2010, 21, 1564-1575.	4.2	8
101	Location and Scatter Matching for Dataset Shift in Text Mining. , 2010, , .		8
102	Handling Ambiguity via Input-Output Kernel Learning. , 2012, , .		7
103	Deep Discrete Prototype Multilabel Learning. , 2018, , .		7
104	Exploratory analysis of cell-based screening data for phenotype identification in drug-siRNA study. International Journal of Computational Biology and Drug Design, 2011, 4, 194.	0.3	6
105	Maximum Margin/Volume Outlier Detection. , 2011, , .		6
106	Robust Plackett-Luce model for k-ary crowdsourced preferences. Machine Learning, 2018, 107, 675-702.	5.4	6
107	Optimizing Performance Measures for Feature Selection. , 2011, , .		5
108	Discovering User Interests from Social Images. Lecture Notes in Computer Science, 2017, , 160-172.	1.3	4

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109	An Efficient Exact Nearest Neighbor Search by Compounded Embedding. Lecture Notes in Computer Science, 2018, , 37-54.	1.3	4
110	Batch mode Adaptive Multiple Instance Learning for computer vision tasks. , 2012, , .		3
111	Learning Target Predictive Function without Target Labels. , 2012, , .		3
112	Fast and Low Memory Cost Matrix Factorization: Algorithm, Analysis, and Case Study. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 288-301.	5.7	3
113	Improving Generalization via Attribute Selection on Out-of-the-Box Data. Neural Computation, 2020, 32, 485-514.	2.2	3
114	Stochastic Multichannel Ranking with Brain Dynamics Preferences. Neural Computation, 2020, 32, 1499-1530.	2.2	3
115	Secure Metric Learning via Differential Pairwise Privacy. IEEE Transactions on Information Forensics and Security, 2020, 15, 3640-3652.	6.9	3
116	Privacy-Preserving Stochastic Gradual Learning. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3129-3140.	5.7	3
117	Online Mental Fatigue Monitoring via Indirect Brain Dynamics Evaluation. Neural Computation, 2021, 33, 1616-1655.	2.2	3
118	Deep Representations to Model User "Likes"™. Lecture Notes in Computer Science, 2015, , 3-18.	1.3	3
119	Learning Image-Specific Attributes by Hyperbolic Neighborhood Graph Propagation. , 2019, , .		3
120	Domain Transfer SVM for video concept detection. , 2009, , .		2
121	Stagewise learning for noisy k-ary preferences. Machine Learning, 2018, 107, 1333-1361.	5.4	2
122	Multiview Alignment and Generation in CCA via Consistent Latent Encoding. Neural Computation, 2020, 32, 1936-1979.	2.2	2
123	A Flexible and Effective Linearization Method for Subspace Learning. , 2013, , 177-203.		2
124	Multiple partitions alignment via spectral rotation. Machine Learning, 0, , 1.	5.4	2
125	Video Concept Detection Using Support Vector Machine with Augmented Features. , 2010, , .		1
126	Multi-instance dictionary learning via multivariate performance measure optimization. Pattern Recognition, 2017, 66, 448-459.	8.1	1

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127	Compact Multiple-Instance Learning. , 2017, , .		1
128	Millionaire: a hint-guided approach for crowdsourcing. Machine Learning, 2019, 108, 831-858.	5.4	1
129	Guest Editorial Special Issue on Structured Multi-Output Learning: Modeling, Algorithm, Theory, and Applications. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2236-2239.	11.3	1
130	Neural Subgraph Explorer: Reducing Noisy Information via Target-oriented Syntax Graph Pruning. , 2022, , .		1
131	T-IRS. , 2009, , .		0
132	Infinite Decision Agent Ensemble Learning System for Credit Risk Analysis. , 2011, , .		0
133	Towards the Learning of Weighted Multi-label Associative Classifiers. , 2018, , .		0
134	Well-M ³ N: A Maximum-Margin Approach to Unsupervised Structured Prediction. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 427-439.	4.9	0