

Ivor W Tsang

List of Publications by Year in descending order

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papers

9,014
citations

109264

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docs citations

86
times ranked

6691
citing authors

#	ARTICLE	IF	CITATIONS
1	Domain Adaptation via Transfer Component Analysis. IEEE Transactions on Neural Networks, 2011, 22, 199-210.	4.8	3,145
2	Domain Transfer Multiple Kernel Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 465-479.	9.7	509
3	Flexible Manifold Embedding: A Framework for Semi-Supervised and Unsupervised Dimension Reduction. IEEE Transactions on Image Processing, 2010, 19, 1921-1932.	6.0	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.	9.7	355
5	Visual Event Recognition in Videos by Learning from Web Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1667-1680.	9.7	349
6	Laplacian Sparse Coding, Hypergraph Laplacian Sparse Coding, and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 92-104.	9.7	316
7	The Pre-Image Problem in Kernel Methods. IEEE Transactions on Neural Networks, 2004, 15, 1517-1525.	4.8	311
8	Local features are not lonely – Laplacian sparse coding for image classification. , 2010, , .		311
9	Domain Adaptation From Multiple Sources: A Domain-Dependent Regularization Approach. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 504-518.	7.2	249
10	Spectral Embedded Clustering: A Framework for In-Sample and Out-of-Sample Spectral Clustering. IEEE Transactions on Neural Networks, 2011, 22, 1796-1808.	4.8	246
11	Kernel Sparse Representation for Image Classification and Face Recognition. Lecture Notes in Computer Science, 2010, , 1-14.	1.0	192
12	Sparse Representation With Kernels. IEEE Transactions on Image Processing, 2013, 22, 423-434.	6.0	159
13	Generalized Core Vector Machines. IEEE Transactions on Neural Networks, 2006, 17, 1126-1140.	4.8	150
14	Fusing Images With Different Focuses Using Support Vector Machines. IEEE Transactions on Neural Networks, 2004, 15, 1555-1561.	4.8	125
15	Soft Margin Multiple Kernel Learning. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 749-761.	7.2	113
16	Survey on Multi-Output Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 31, 1-21.	7.2	107
17	Maximum Margin Clustering Made Practical. IEEE Transactions on Neural Networks, 2009, 20, 583-596.	4.8	94
18	Visual event recognition in videos by learning from web data. , 2010, , .		89

#	ARTICLE	IF	CITATIONS
19	Mememes as building blocks: a case study on evolutionary optimization + transfer learning for routing problems. Memetic Computing, 2015, 7, 159-180.	2.7	87
20	A Hybrid PSO-BFGS Strategy for Global Optimization of Multimodal Functions. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1003-1014.	5.5	76
21	Text-based image retrieval using progressive multi-instance learning. , 2011, , .		66
22	Domain Transfer SVM for video concept detection. , 2009, , .		60
23	Tag-based web photo retrieval improved by batch mode re-tagging. , 2010, , .		60
24	Spectral Embedded Hashing for Scalable Image Retrieval. IEEE Transactions on Cybernetics, 2014, 44, 1180-1190.	6.2	59
25	Deep Learning From Noisy Image Labels With Quality Embedding. IEEE Transactions on Image Processing, 2019, 28, 1909-1922.	6.0	58
26	A Convex Method for Locating Regions of Interest with Multi-instance Learning. Lecture Notes in Computer Science, 2009, , 15-30.	1.0	58
27	A Feature Selection Method for Multivariate Performance Measures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2051-2063.	9.7	53
28	Unseen Land Cover Classification from High-Resolution Orthophotos Using Integration of Zero-Shot Learning and Convolutional Neural Networks. Remote Sensing, 2020, 12, 1676.	1.8	51
29	Measuring Diversity in Graph Learning: A Unified Framework for Structured Multi-View Clustering. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5869-5883.	4.0	51
30	Textual Query of Personal Photos Facilitated by Large-Scale Web Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1022-1036.	9.7	50
31	Laplacian Embedded Regression for Scalable Manifold Regularization. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 902-915.	7.2	49
32	Tag-Based Image Retrieval Improved by Augmented Features and Group-Based Refinement. IEEE Transactions on Multimedia, 2012, 14, 1057-1067.	5.2	46
33	Improving Web Image Search by Bag-Based Reranking. IEEE Transactions on Image Processing, 2011, 20, 3280-3290.	6.0	45
34	Efficient Hyperkernel Learning Using Second-Order Cone Programming. IEEE Transactions on Neural Networks, 2006, 17, 48-58.	4.8	44
35	Large-Scale Maximum Margin Discriminant Analysis Using Core Vector Machines. IEEE Transactions on Neural Networks, 2008, 19, 610-624.	4.8	44
36	Extracting discriminative concepts for domain adaptation in text mining. , 2009, , .		43

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37	Familial Clustering for Weakly-Labeled Android Malware Using Hybrid Representation Learning. IEEE Transactions on Information Forensics and Security, 2020, 15, 3401-3414.	4.5	43
38	SVDD-Based Pattern Denoising. Neural Computation, 2007, 19, 1919-1938.	1.3	39
39	Combating Negative Transfer From Predictive Distribution Differences. IEEE Transactions on Cybernetics, 2013, 43, 1153-1165.	6.2	39
40	Minimax Sparse Logistic Regression for Very High-Dimensional Feature Selection. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1609-1622.	7.2	38
41	Transductive Ordinal Regression. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1074-1086.	7.2	36
42	Efficient Optimization of Performance Measures by Classifier Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1370-1382.	9.7	31
43	Late Fusion via Subspace Search With Consistency Preservation. IEEE Transactions on Image Processing, 2019, 28, 518-528.	6.0	31
44	Domain Adaption via Feature Selection on Explicit Feature Map. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1180-1190.	7.2	30
45	A Class of Single-Class Minimax Probability Machines for Novelty Detection. IEEE Transactions on Neural Networks, 2007, 18, 778-785.	4.8	27
46	An evolutionary search paradigm that learns with past experiences. , 2012, , .		27
47	Learning on Attribute-Missing Graphs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 740-757.	9.7	26
48	Objective-Guided Image Annotation. IEEE Transactions on Image Processing, 2013, 22, 1585-1597.	6.0	25
49	Discovering Low-Rank Shared Concept Space for Adapting Text Mining Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1284-1297.	9.7	25
50	Deep Co-Image-Label Hashing for Multi-Label Image Retrieval. IEEE Transactions on Multimedia, 2022, 24, 1116-1126.	5.2	25
51	Large Margin Partial Label Machine. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2594-2608.	7.2	24
52	Online Multi-Agent Forecasting With Interpretable Collaborative Graph Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-15.	7.2	24
53	Progressive Stochastic Learning for Noisy Labels. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5136-5148.	7.2	21
54	Error Correcting Input and Output Hashing. IEEE Transactions on Cybernetics, 2019, 49, 781-791.	6.2	20

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55	Face Hallucination With Finishing Touches. IEEE Transactions on Image Processing, 2021, 30, 1728-1743.	6.0	20
56	Relevance vector machine based infinite decision agent ensemble learning for credit risk analysis. Expert Systems With Applications, 2012, 39, 4947-4953.	4.4	17
57	Hyperspectral Imagery Classification via Stochastic HHSVMs. IEEE Transactions on Image Processing, 2019, 28, 577-588.	6.0	15
58	A unified probabilistic framework for robust manifold learning and embedding. Machine Learning, 2017, 106, 627-650.	3.4	14
59	Towards Faster Vehicle Routing by Transferring Knowledge From Customer Representation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 952-965.	4.7	14
60	Pareto Rank Learning in Multi-objective Evolutionary Algorithms. , 2012, , .		13
61	Co-labeling: A New Multi-view Learning Approach for Ambiguous Problems. , 2012, , .		13
62	Domain-adversarial Network Alignment. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	12
63	Maximum Penalized Likelihood Kernel Regression for Fast Adaptation. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1372-1381.	3.8	10
64	Predictive Distribution Matching SVM for Multi-domain Learning. Lecture Notes in Computer Science, 2010, , 231-247.	1.0	9
65	Incorporating the Loss Function Into Discriminative Clustering of Structured Outputs. IEEE Transactions on Neural Networks, 2010, 21, 1564-1575.	4.8	8
66	Beyond Majority Voting: A Coarse-to-Fine Label Filtration for Heavily Noisy Labels. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3774-3787.	7.2	8
67	Complementary Attributes: A New Clue to Zero-Shot Learning. IEEE Transactions on Cybernetics, 2021, 51, 1519-1530.	6.2	8
68	Handling Ambiguity via Input-Output Kernel Learning. , 2012, , .		7
69	Understanding VAEs in Fisher-Shannon Plane. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5917-5924.	3.6	7
70	Maximum Margin/Volume Outlier Detection. , 2011, , .		6
71	Robust Plackett-Luce model for k-ary crowdsourced preferences. Machine Learning, 2018, 107, 675-702.	3.4	6
72	Diversified SVM Ensembles for Large Data Sets. Lecture Notes in Computer Science, 2006, , 792-800.	1.0	6

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73	Batch mode Adaptive Multiple Instance Learning for computer vision tasks. , 2012, , .		3
74	Learning Target Predictive Function without Target Labels. , 2012, , .		3
75	Improving Generalization via Attribute Selection on Out-of-the-Box Data. Neural Computation, 2020, 32, 485-514.	1.3	3
76	Shattering Distribution for Active Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 215-228.	7.2	3
77	Stochastic Multichannel Ranking with Brain Dynamics Preferences. Neural Computation, 2020, 32, 1499-1530.	1.3	3
78	Secure Metric Learning via Differential Pairwise Privacy. IEEE Transactions on Information Forensics and Security, 2020, 15, 3640-3652.	4.5	3
79	Privacy-Preserving Stochastic Gradual Learning. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3129-3140.	4.0	3
80	Online Mental Fatigue Monitoring via Indirect Brain Dynamics Evaluation. Neural Computation, 2021, 33, 1616-1655.	1.3	3
81	Stagewise learning for noisy k-ary preferences. Machine Learning, 2018, 107, 1333-1361.	3.4	2
82	Multiview Alignment and Generation in CCA via Consistent Latent Encoding. Neural Computation, 2020, 32, 1936-1979.	1.3	2
83	Multiple partitions alignment via spectral rotation. Machine Learning, 0, , 1.	3.4	2
84	Millionaire: a hint-guided approach for crowdsourcing. Machine Learning, 2019, 108, 831-858.	3.4	1
85	Learning With Label Proportions by Incorporating Unmarked Data. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5898-5912.	7.2	0
86	Cold-Start Active Sampling Via $\hat{\mathcal{I}}^3$ -Tube. IEEE Transactions on Cybernetics, 2022, 52, 6034-6045.	6.2	0