

# Ivor Wai-Hung Tsang

## List of Publications by Year in descending order

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134  
papers

11,091  
citations

87401

40  
h-index

45040

94  
g-index

135  
all docs

135  
docs citations

135  
times ranked

9728  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Faster Vehicle Routing by Transferring Knowledge From Customer Representation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 952-965.	4.7	14
2	Efficient federated multi-view learning. Pattern Recognition, 2022, 131, 108817.	5.1	12
3	Neural Subgraph Explorer: Reducing Noisy Information via Target-oriented Syntax Graph Pruning. , 2022, , .		1
4	Privacy-Preserving Stochastic Gradual Learning. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3129-3140.	4.0	3
5	Online Mental Fatigue Monitoring via Indirect Brain Dynamics Evaluation. Neural Computation, 2021, 33, 1616-1655.	1.3	3
6	Fast and Low Memory Cost Matrix Factorization: Algorithm, Analysis, and Case Study. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 288-301.	4.0	3
7	VR-SGD: A Simple Stochastic Variance Reduction Method for Machine Learning. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 188-202.	4.0	38
8	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
9	Improving Generalization via Attribute Selection on Out-of-the-Box Data. Neural Computation, 2020, 32, 485-514.	1.3	3
10	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.	7.2	1
11	Multiview Alignment and Generation in CCA via Consistent Latent Encoding. Neural Computation, 2020, 32, 1936-1979.	1.3	2
12	Stochastic Multichannel Ranking with Brain Dynamics Preferences. Neural Computation, 2020, 32, 1499-1530.	1.3	3
13	Secure Metric Learning via Differential Pairwise Privacy. IEEE Transactions on Information Forensics and Security, 2020, 15, 3640-3652.	4.5	3
14	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
15	Survey on Multi-Output Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 31, 1-21.	7.2	107
16	A Data-Analytics Approach for Enterprise Resilience. IEEE Intelligent Systems, 2019, 34, 6-18.	4.0	10
17	Domain Adaption via Feature Selection on Explicit Feature Map. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1180-1190.	7.2	30
18	Hyperspectral Imagery Classification via Stochastic HHSVMs. IEEE Transactions on Image Processing, 2019, 28, 577-588.	6.0	15

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19	Late Fusion via Subspace Search With Consistency Preservation. IEEE Transactions on Image Processing, 2019, 28, 518-528.	6.0	31
20	Well-M <sup>3</sup> N: A Maximum-Margin Approach to Unsupervised Structured Prediction. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 427-439.	3.4	0
21	Millionaire: a hint-guided approach for crowdsourcing. Machine Learning, 2019, 108, 831-858.	3.4	1
22	Auto-weighted multi-view clustering via kernelized graph learning. Pattern Recognition, 2019, 88, 174-184.	5.1	156
23	Deep Learning From Noisy Image Labels With Quality Embedding. IEEE Transactions on Image Processing, 2019, 28, 1909-1922.	6.0	58
24	Error Correcting Input and Output Hashing. IEEE Transactions on Cybernetics, 2019, 49, 781-791.	6.2	20
25	Metric Learning for Multi-Output Tasks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 408-422.	9.7	74
26	Learning Image-Specific Attributes by Hyperbolic Neighborhood Graph Propagation. , 2019, , .		3
27	Progressive Stochastic Learning for Noisy Labels. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5136-5148.	7.2	21
28	Online Product Quantization. IEEE Transactions on Knowledge and Data Engineering, 2018, , 1-1.	4.0	13
29	Multilabel Prediction via Cross-View Search. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4324-4338.	7.2	61
30	“Who Likes What and, Why?” Insights into Modeling Users’ Personality Based on Image “Likes”. IEEE Transactions on Affective Computing, 2018, 9, 130-143.	5.7	26
31	Robust Plackett-Luce model for k-ary crowdsourced preferences. Machine Learning, 2018, 107, 675-702.	3.4	6
32	Towards the Learning of Weighted Multi-label Associative Classifiers. , 2018, , .		0
33	Discrete Ranking-based Matrix Factorization with Self-Paced Learning. , 2018, , .		18
34	High-order Proximity Preserving Information Network Hashing. , 2018, , .		28
35	Stagewise learning for noisy k-ary preferences. Machine Learning, 2018, 107, 1333-1361.	3.4	2
36	An Efficient Exact Nearest Neighbor Search by Compounded Embedding. Lecture Notes in Computer Science, 2018, , 37-54.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Deep Discrete Prototype Multilabel Learning. , 2018, , .		7
38	Partial Hash Update via Hamming Subspace Learning. IEEE Transactions on Image Processing, 2017, 26, 1939-1951.	6.0	9
39	Multi-instance dictionary learning via multivariate performance measure optimization. Pattern Recognition, 2017, 66, 448-459.	5.1	1
40	Discovering User Interests from Social Images. Lecture Notes in Computer Science, 2017, , 160-172.	1.0	4
41	Principal Graph and Structure Learning Based on Reversed Graph Embedding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2227-2241.	9.7	65
42	A unified probabilistic framework for robust manifold learning and embedding. Machine Learning, 2017, 106, 627-650.	3.4	14
43	Incremental Subgraph Feature Selection for Graph Classification. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 128-142.	4.0	42
44	Online Heterogeneous Transfer by Hedge Ensemble of Offline and Online Decisions. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-12.	7.2	24
45	Compact Multiple-Instance Learning. , 2017, , .		1
46	Understanding Deep Representations Learned in Modeling Users Likes. IEEE Transactions on Image Processing, 2016, 25, 3762-3774.	6.0	11
47	Learning word dependencies in text by means of a deep recurrent belief network. Knowledge-Based Systems, 2016, 108, 144-154.	4.0	86
48	On the Convergence of a Family of Robust Losses for Stochastic Gradient Descent. Lecture Notes in Computer Science, 2016, , 665-680.	1.0	14
49	DEFEATnet“ A Deep Conventional Image Representation for Image Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 494-505.	5.6	29
50	Making Trillion Correlations Feasible in Feature Grouping and Selection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2472-2486.	9.7	11
51	Co-Labeling for Multi-View Weakly Labeled Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1113-1125.	9.7	55
52	A Unified Feature Selection Framework for Graph Embedding on High Dimensional Data. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1465-1477.	4.0	22
53	Matching Pursuit LASSO Part I: Sparse Recovery Over Big Dictionary. IEEE Transactions on Signal Processing, 2015, 63, 727-741.	3.2	29
54	Matching Pursuit LASSO Part II: Applications and Sparse Recovery Over Batch Signals. IEEE Transactions on Signal Processing, 2015, 63, 742-753.	3.2	10

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55	Memetic Search With Interdomain Learning: A Realization Between CVRP and CARP. IEEE Transactions on Evolutionary Computation, 2015, 19, 644-658.	7.5	171
56	Objects co-segmentation: Propagated from simpler images. , 2015, , .		9
57	Memes as building blocks: a case study on evolutionary optimization + transfer learning for routing problems. Memetic Computing, 2015, 7, 159-180.	2.7	87
58	Generalized Multiple Kernel Learning With Data-Dependent Priors. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1134-1148.	7.2	14
59	Defragging Subgraph Features for Graph Classification. , 2015, , .		9
60	Deep Representations to Model User "Likes". Lecture Notes in Computer Science, 2015, , 3-18.	1.0	3
61	Feature Disentangling Machine - A Novel Approach of Feature Selection and Disentangling in Facial Expression Analysis. Lecture Notes in Computer Science, 2014, , 151-166.	1.0	37
62	Learning Category-Specific Dictionary and Shared Dictionary for Fine-Grained Image Categorization. IEEE Transactions on Image Processing, 2014, 23, 623-634.	6.0	170
63	Concurrent Single-Label Image Classification and Annotation via Efficient Multi-Layer Group Sparse Coding. IEEE Transactions on Multimedia, 2014, 16, 762-771.	5.2	32
64	Region-Based Saliency Detection and Its Application in Object Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 769-779.	5.6	268
65	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
66	Event Detection Using Multi-level Relevance Labels and Multiple Features. , 2014, , .		14
67	The Emerging "Big Dimensionality". IEEE Computational Intelligence Magazine, 2014, 9, 14-26.	3.4	188
68	Spectral Embedded Hashing for Scalable Image Retrieval. IEEE Transactions on Cybernetics, 2014, 44, 1180-1190.	6.2	59
69	A Feature Selection Method for Multivariate Performance Measures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2051-2063.	9.7	53
70	Efficient Optimization of Performance Measures by Classifier Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1370-1382.	9.7	31
71	Soft Margin Multiple Kernel Learning. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 749-761.	7.2	113
72	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

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73	Combating Negative Transfer From Predictive Distribution Differences. IEEE Transactions on Cybernetics, 2013, 43, 1153-1165.	6.2	39
74	Laplacian Sparse Coding, Hypergraph Laplacian Sparse Coding, and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 92-104.	9.7	316
75	Sparse Representation With Kernels. IEEE Transactions on Image Processing, 2013, 22, 423-434.	6.0	159
76	Objective-Guided Image Annotation. IEEE Transactions on Image Processing, 2013, 22, 1585-1597.	6.0	25
77	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
78	Transfer Ordinal Label Learning. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1863-1876.	7.2	15
79	Feature Weighting via Optimal Thresholding for Video Analysis. , 2013, , .		42
80	A Flexible and Effective Linearization Method for Subspace Learning. , 2013, , 177-203.		2
81	Batch mode Adaptive Multiple Instance Learning for computer vision tasks. , 2012, , .		3
82	Pareto Rank Learning in Multi-objective Evolutionary Algorithms. , 2012, , .		13
83	Learning Target Predictive Function without Target Labels. , 2012, , .		3
84	An evolutionary search paradigm that learns with past experiences. , 2012, , .		27
85	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
86	Co-labeling: A New Multi-view Learning Approach for Ambiguous Problems. , 2012, , .		13
87	Handling Ambiguity via Input-Output Kernel Learning. , 2012, , .		7
88	Laplacian Embedded Regression for Scalable Manifold Regularization. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 902-915.	7.2	49
89	Transductive Ordinal Regression. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1074-1086.	7.2	36
90	Tag-Based Image Retrieval Improved by Augmented Features and Group-Based Refinement. IEEE Transactions on Multimedia, 2012, 14, 1057-1067.	5.2	46

#	ARTICLE	IF	CITATIONS
91	Relevance vector machine based infinite decision agent ensemble learning for credit risk analysis. Expert Systems With Applications, 2012, 39, 4947-4953.	4.4	17
92	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
93	Domain Transfer Multiple Kernel Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 465-479.	9.7	509
94	Domain Adaptation via Transfer Component Analysis. IEEE Transactions on Neural Networks, 2011, 22, 199-210.	4.8	3,145
95	Healing Sample Selection Bias by Source Classifier Selection. , 2011, , .		11
96	Text-based image retrieval using progressive multi-instance learning. , 2011, , .		66
97	Improving Web Image Search by Bag-Based Reranking. IEEE Transactions on Image Processing, 2011, 20, 3280-3290.	6.0	45
98	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
99	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
100	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
101	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
102	Maximum Margin/Volume Outlier Detection. , 2011, , .		6
103	Infinite Decision Agent Ensemble Learning System for Credit Risk Analysis. , 2011, , .		0
104	Optimizing Performance Measures for Feature Selection. , 2011, , .		5
105	Multi-layer group sparse coding &#x2014; For concurrent image classification and annotation. , 2011, , .		47
106	Incorporating the Loss Function Into Discriminative Clustering of Structured Outputs. IEEE Transactions on Neural Networks, 2010, 21, 1564-1575.	4.8	8
107	Tag-based web photo retrieval improved by batch mode re-tagging. , 2010, , .		60
108	Local features are not lonely &#x2013; Laplacian sparse coding for image classification. , 2010, , .		311

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109	Automatic image tagging via category label and web data. , 2010, , .		12
110	Kernel Sparse Representation for Image Classification and Face Recognition. Lecture Notes in Computer Science, 2010, , 1-14.	1.0	192
111	Flexible Manifold Embedding: A Framework for Semi-Supervised and Unsupervised Dimension Reduction. IEEE Transactions on Image Processing, 2010, 19, 1921-1932.	6.0	439
112	Visual event recognition in videos by learning from web data. , 2010, , .		89
113	Location and Scatter Matching for Dataset Shift in Text Mining. , 2010, , .		8
114	Video Concept Detection Using Support Vector Machine with Augmented Features. , 2010, , .		1
115	Predictive Distribution Matching SVM for Multi-domain Learning. Lecture Notes in Computer Science, 2010, , 231-247.	1.0	9
116	Domain adaptation from multiple sources via auxiliary classifiers. , 2009, , .		201
117	Extracting discriminative concepts for domain adaptation in text mining. , 2009, , .		43
118	T-IRS. , 2009, , .		0
119	Using large-scale web data to facilitate textual query based retrieval of consumer photos. , 2009, , .		23
120	SimpleNPKL. , 2009, , .		14
121	Maximum Penalized Likelihood Kernel Regression for Fast Adaptation. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1372-1381.	3.8	10
122	Maximum Margin Clustering Made Practical. IEEE Transactions on Neural Networks, 2009, 20, 583-596.	4.8	94
123	Domain Transfer SVM for video concept detection. , 2009, , .		2
124	A Convex Method for Locating Regions of Interest with Multi-instance Learning. Lecture Notes in Computer Science, 2009, , 15-30.	1.0	58
125	Large-Scale Maximum Margin Discriminant Analysis Using Core Vector Machines. IEEE Transactions on Neural Networks, 2008, 19, 610-624.	4.8	44
126	Simpler core vector machines with enclosing balls. , 2007, , .		125

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127	Maximum margin clustering made practical. , 2007, , .		53
128	A Class of Single-Class Minimax Probability Machines for Novelty Detection. IEEE Transactions on Neural Networks, 2007, 18, 778-785.	4.8	27
129	SVDD-Based Pattern Denoising. Neural Computation, 2007, 19, 1919-1938.	1.3	39
130	Efficient Hyperkernel Learning Using Second-Order Cone Programming. IEEE Transactions on Neural Networks, 2006, 17, 48-58.	4.8	44
131	Generalized Core Vector Machines. IEEE Transactions on Neural Networks, 2006, 17, 1126-1140.	4.8	150
132	Fusing Images With Different Focuses Using Support Vector Machines. IEEE Transactions on Neural Networks, 2004, 15, 1555-1561.	4.8	125
133	The Pre-Image Problem in Kernel Methods. IEEE Transactions on Neural Networks, 2004, 15, 1517-1525.	4.8	311
134	Multiple partitions alignment via spectral rotation. Machine Learning, 0, , 1.	3.4	2