

Steven C H Hoi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

160
papers

5,218
citations

41
h-index

66
g-index

174
ext. papers

6,848
ext. citations

4.7
avg, IF

6.57
L-index

#	Paper	IF	Citations
160	Collaborative Refining for Person Re-Identification With Label Noise. <i>IEEE Transactions on Image Processing</i> , 2022 , 31, 379-391	8.7	9
159	RegNet: Self-Regulated Network for Image Classification.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022 , PP,	10.3	6
158	Deep Learning for Image Super-Resolution: A Survey. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 3365-3387	13.3	258
157	VisDrone-CC2021: The Vision Meets Drone Crowd Counting Challenge Results 2021 ,		4
156	Distilled Siamese Networks for Visual Tracking. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	10
155	VisDrone-DET2021: The Vision Meets Drone Object detection Challenge Results 2021 ,		10
154	Paying Attention to Video Object Pattern Understanding. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 2413-2428	13.3	23
153	A Hybrid Deep Learning Based Framework for Component Defect Detection of Moving Trains. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-13	6.1	0
152	A Data-Driven Method for Online Monitoring Tube Wall Thinning Process in Dynamic Noisy Environment. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-16	4.9	1
151	Online learning: A comprehensive survey. <i>Neurocomputing</i> , 2021 , 459, 249-289	5.4	25
150	. <i>IEEE Transactions on Multimedia</i> , 2021 , 23, 3085-3097	6.6	10
149	Deep Learning for Person Re-identification: A Survey and Outlook. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	209
148	DART: Domain-Adversarial Residual-Transfer networks for unsupervised cross-domain image classification. <i>Neural Networks</i> , 2020 , 127, 182-192	9.1	15
147	Reducing Estimation Bias via Triplet-Average Deep Deterministic Policy Gradient. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 4933-4945	10.3	10
146	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 3153-3165	6.6	6
145	Time-Warped Sparse Non-negative Factorization for Functional Data Analysis. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2020 , 14, 1-23	4	1
144	A Unified Framework for Sparse Online Learning. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2020 , 14, 1-20	4	0

143	Exploring Structural Knowledge for Automated Visual Inspection of Moving Trains. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	3
142	Disparity-Aware Domain Adaptation in Stereo Image Restoration 2020 ,		7
141	Robust Graph Learning From Noisy Data. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1833-1843	10.2	116
140	Collaborative online ranking algorithms for multitask learning. <i>Knowledge and Information Systems</i> , 2020 , 62, 2327-2348	2.4	
139	Large Scale Online Multiple Kernel Regression with Application to Time-Series Prediction. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2019 , 13, 1-33	4	14
138	Adaptive Cost-Sensitive Online Classification. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019 , 31, 214-228	4.2	20
137	Compositional Coding for Collaborative Filtering 2019 ,		1
136	Salient Object Detection With Pyramid Attention and Salient Edges 2019 ,		174
135	2019 ,		75
134	Discrete Social Recommendation. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 208-215	5	8
133	Semi-supervised deep embedded clustering. <i>Neurocomputing</i> , 2019 , 325, 121-130	5-4	55
132	Sparse Passive-Aggressive Learning for Bounded Online Kernel Methods. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2018 , 9, 1-27	8	8
131	Second-Order Online Active Learning and Its Applications. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2018 , 30, 1338-1351	4.2	12
130	Distributed multi-task classification: a decentralized online learning approach. <i>Machine Learning</i> , 2018 , 107, 727-747	4	15
129	Transaction cost optimization for online portfolio selection. <i>Quantitative Finance</i> , 2018 , 18, 1411-1424	1.6	12
128	Multi-target deep neural networks: Theoretical analysis and implementation. <i>Neurocomputing</i> , 2018 , 273, 634-642	5-4	15
127	Online Active Learning with Expert Advice. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2018 , 12, 1-22	4	7
126	Deep Learning for Practical Image Recognition 2018 ,		14

125	Online Deep Learning: Learning Deep Neural Networks on the Fly 2018 ,		57
124	Combination Forecasting Reversion Strategy for Online Portfolio Selection. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2018 , 9, 1-22	8	7
123	HDIdx: High-dimensional indexing for efficient approximate nearest neighbor search. <i>Neurocomputing</i> , 2017 , 237, 401-404	5.4	3
122	Collaborative topic regression for online recommender systems: an online and Bayesian approach. <i>Machine Learning</i> , 2017 , 106, 651-670	4	25
121	SOL: A library for scalable online learning algorithms. <i>Neurocomputing</i> , 2017 , 260, 9-12	5.4	10
120	Learning Personalized Preference of Strong and Weak Ties for Social Recommendation 2017 ,		44
119	Sparse Online Learning of Image Similarity. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2017 , 8, 1-22	8	38
118	Large-Scale Online Feature Selection for Ultra-High Dimensional Sparse Data. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2017 , 11, 1-22	4	17
117	. <i>IEEE Transactions on Multimedia</i> , 2017 , 19, 586-597	6.6	19
116	Interactive Social Recommendation 2017 ,		10
115	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2016 , 28, 454-467	4.2	52
114	Soft Confidence-Weighted Learning. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2016 , 8, 1-32	8	13
113	Mobile App Tagging 2016 ,		17
112	Online Adaptive Passive-Aggressive Methods for Non-Negative Matrix Factorization and Its Applications 2016 ,		3
111	SOAL: Second-Order Online Active Learning 2016 ,		7
110	On Effective Personalized Music Retrieval by Exploring Online User Behaviors 2016 ,		16
109	Robust Median Reversion Strategy for Online Portfolio Selection. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2016 , 28, 2480-2493	4.2	31
108	Online Passive-Aggressive Active learning. <i>Machine Learning</i> , 2016 , 103, 141-183	4	28

107	. <i>IEEE Transactions on Multimedia</i> , 2015 , 17, 1391-1397	6.6	18
106	SimApp 2015 ,		42
105	Candy crushing your sleep 2015 ,		3
104	Active Crowdsourcing for Annotation 2015 ,		3
103	Reliable Patch Trackers: Robust visual tracking by exploiting reliable patches 2015 ,		192
102	Cost-Sensitive Online Classification with Adaptive Regularization and Its Applications 2015 ,		4
101	Community Discovery from Social Media by Low-Rank Matrix Recovery. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2015 , 5, 1-19	8	10
100	Moving average reversion strategy for on-line portfolio selection. <i>Artificial Intelligence</i> , 2015 , 222, 104-133	3.6	41
99	Learning Relative Similarity from Data Streams 2015 ,		4
98	Online portfolio selection. <i>ACM Computing Surveys</i> , 2014 , 46, 1-36	13.4	66
97	Software process evaluation: a machine learning framework with application to defect management process. <i>Empirical Software Engineering</i> , 2014 , 19, 1531-1564	3.3	15
96	Mining Weakly Labeled Web Facial Images for Search-Based Face Annotation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014 , 26, 166-179	4.2	30
95	Cost-Sensitive Online Classification. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014 , 26, 2425-2438	4.5	50
94	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014 , 26, 1866-1876	4.2	20
93	Online Transfer Learning. <i>Artificial Intelligence</i> , 2014 , 216, 76-102	3.6	67
92	Retrieval-based face annotation by weak label regularized local coordinate coding. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014 , 36, 550-63	13.3	39
91	Graph Matching by Simplified Convex-Concave Relaxation Procedure. <i>International Journal of Computer Vision</i> , 2014 , 109, 169-186	10.6	42
90	Integrating water exclusion theory into π -contacts to predict binding free energy changes and binding hot spots. <i>BMC Bioinformatics</i> , 2014 , 15, 57	3.6	7

89	FSpH: Fitted spectral hashing for efficient similarity search. <i>Computer Vision and Image Understanding</i> , 2014 , 124, 3-11	4.3	2
88	Online multiple kernel regression 2014 ,		22
87	Coupling Graphs, Efficient Algorithms and B-Cell Epitope Prediction. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014 , 11, 7-16	3	5
86	AR-miner: mining informative reviews for developers from mobile app marketplace 2014 ,		245
85	Identifying essential pairwise interactions in elastic network model using the alpha shape theory. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1111-21	3.5	13
84	High-Dimensional Data Stream Classification via Sparse Online Learning 2014 ,		12
83	Online Feature Selection and Its Applications. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014 , 26, 698-710	4.2	130
82	Online multiple kernel similarity learning for visual search. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014 , 36, 536-49	13.3	65
81	Cost-sensitive online active learning with application to malicious URL detection 2013 ,		60
80	Confidence Weighted Mean Reversion Strategy for Online Portfolio Selection. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2013 , 7, 1-38	4	44
79	Online Multiple Kernel Classification. <i>Machine Learning</i> , 2013 , 90, 289-316	4	61
78	MKBoost: A Framework of Multiple Kernel Boosting. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013 , 25, 1574-1586	4.2	43
77	Online multi-task collaborative filtering for on-the-fly recommender systems 2013 ,		21
76	Learning to name faces 2013 ,		13
75	Classification in P2P networks with cascade support vector machines. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2013 , 7, 1-29	4	3
74	Online multi-modal distance learning for scalable multimedia retrieval 2013 ,		10
73	Predictive Handling of Asynchronous Concept Drifts in Distributed Environments. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013 , 25, 2343-2355	4.2	17
72	Online multimodal deep similarity learning with application to image retrieval 2013 ,		85

71	FANS 2013 ,		4
70	Beta atomic contacts: identifying critical specific contacts in protein binding interfaces. <i>PLoS ONE</i> , 2013 , 8, e59737	3.7	5
69	Cost-Sensitive Double Updating Online Learning and Its Application to Online Anomaly Detection 2013 ,		4
68	Multiview Semi-Supervised Learning with Consensus. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2012 , 24, 2040-2051	4.2	42
67	Online feature selection for mining big data 2012 ,		45
66	B-cell epitope prediction through a graph model. <i>BMC Bioinformatics</i> , 2012 , 13 Suppl 17, S20	3.6	16
65	Structural and functional analysis of multi-interface domains. <i>PLoS ONE</i> , 2012 , 7, e50821	3.7	4
64	PAMR: Passive aggressive mean reversion strategy for portfolio selection. <i>Machine Learning</i> , 2012 , 87, 221-258	4	71
63	Boosting multi-kernel locality-sensitive hashing for scalable image retrieval 2012 ,		23
62	Learning Bregman Distance Functions for Semi-Supervised Clustering. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2012 , 24, 478-491	4.2	39
61	Cost-Sensitive Online Classification 2012 ,		11
60	Modeling and Compressing 3-D Facial Expressions Using Geometry Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2012 , 22, 77-90	6.4	15
59	BDUOL: Double Updating Online Learning on a Fixed Budget. <i>Lecture Notes in Computer Science</i> , 2012 , 810-826	0.9	2
58	. <i>IEEE MultiMedia</i> , 2011 , 18, 24-37	2.1	21
57	Spectral Geometry Image: Image Based 3D Models for Digital Broadcasting Applications. <i>IEEE Transactions on Broadcasting</i> , 2011 , 57, 636-645	4.7	7
56	An Effective Approach to Pose Invariant 3D Face Recognition. <i>Lecture Notes in Computer Science</i> , 2011 , 217-228	0.9	2
55	Retrieval-based face annotation by weak label regularized local coordinate coding 2011 ,		18
54	Software process evaluation: A machine learning approach 2011 ,		13

53	Modeling 3D articulated motions with conformal geometry videos (CGVs) 2011 ,		8
52	Distance metric learning from uncertain side information for automated photo tagging. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2011 , 2, 1-28	8	12
51	A two-view learning approach for image tag ranking 2011 ,		44
50	Near-duplicate keyframe retrieval by semi-supervised learning and nonrigid image matching. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2011 , 7, 1-24	3-4	9
49	CORN. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2011 , 2, 1-29	8	32
48	Mining weakly labeled web facial images for search-based face annotation 2011 ,		13
47	When recommendation meets mobile 2011 ,		37
46	Active multiple kernel learning for interactive 3D object retrieval systems. <i>ACM Transactions on Interactive Intelligent Systems</i> , 2011 , 1, 1-27	1.8	1
45	Collaborative online learning of user generated content 2011 ,		5
44	Modeling social strength in social media community via kernel-based learning 2011 ,		41
43	SIRE 2011 ,		2
42	Structural analysis of the hot spots in the binding between H1N1 HA and the 2D1 antibody: do mutations of H1N1 from 1918 to 2009 affect much on this binding?. <i>Bioinformatics</i> , 2011 , 27, 2529-36	7-2	7
41	Randomly Projected KD-Trees with Distance Metric Learning for Image Retrieval. <i>Lecture Notes in Computer Science</i> , 2011 , 371-382	0.9	2
40	Social Image Tag Ranking by Two-View Learning 2011 , 47-70		
39	Semi-supervised distance metric learning for collaborative image retrieval and clustering. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2010 , 6, 1-26	3-4	94
38	Modeling 3D facial expressions using geometry videos 2010 ,		6
37	Non-parametric kernel ranking approach for social image retrieval 2010 ,		5
36	Semantics-preserving bag-of-words models and applications. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 1908-20	8.7	138

35	Micro-blogging Sentiment Detection by Collaborative Online Learning 2010 ,		20
34	A boosting framework for visibility-preserving distance metric learning and its application to medical image retrieval. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 30-44	13.3	113
33	Two-view Transductive Support Vector Machines 2010 ,		26
32	Adaptive Ensemble Classification in P2P Networks. <i>Lecture Notes in Computer Science</i> , 2010 , 34-48	0.9	4
31	On Classifying Drifting Concepts in P2P Networks. <i>Lecture Notes in Computer Science</i> , 2010 , 24-39	0.9	4
30	Online Multiple Kernel Learning: Algorithms and Mistake Bounds. <i>Lecture Notes in Computer Science</i> , 2010 , 390-404	0.9	30
29	Satrap: Data and Network Heterogeneity Aware P2P Data-Mining. <i>Lecture Notes in Computer Science</i> , 2010 , 63-70	0.9	
28	SimpleNPKL 2009 ,		12
27	Distance metric learning from uncertain side information with application to automated photo tagging 2009 ,		56
26	Semisupervised SVM batch mode active learning with applications to image retrieval. <i>ACM Transactions on Information Systems</i> , 2009 , 27, 1-29	4.8	85
25	Web Query Recommendation via Sequential Query Prediction. <i>Proceedings - International Conference on Data Engineering</i> , 2009 ,	2	71
24	Semantics-preserving bag-of-words models for efficient image annotation 2009 ,		15
23	Batch Mode Active Learning with Applications to Text Categorization and Image Retrieval. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2009 , 21, 1233-1248	4.2	50
22	Communication-Efficient Classification in P2P Networks. <i>Lecture Notes in Computer Science</i> , 2009 , 83-98	0.9	8
21	Robust regularized kernel regression. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008 , 38, 1639-44		22
20	. <i>IEEE Transactions on Multimedia</i> , 2008 , 10, 607-619	6.6	30
19	Semi-supervised distance metric learning for Collaborative Image Retrieval 2008 ,		77
18	Semi-supervised SVM batch mode active learning for image retrieval 2008 ,		76

17	. <i>IEEE Transactions on Multimedia</i> , 2008 , 10, 86-96	6.6	29
16	On profiling blogs with representative entries 2008 ,		3
15	Near-duplicate keyframe retrieval by nonrigid image matching 2008 ,		69
14	Cascade RSVM in Peer-to-Peer Networks. <i>Lecture Notes in Computer Science</i> , 2008 , 55-70	0.9	14
13	Output Regularized Metric Learning with Side Information. <i>Lecture Notes in Computer Science</i> , 2008 , 358-371	0.9	6
12	An Effective Approach to 3D Deformable Surface Tracking. <i>Lecture Notes in Computer Science</i> , 2008 , 766-779	0.9	11
11	A Multimodal and Multilevel Ranking Framework for Content-Based Video Retrieval 2007 ,		5
10	A Multi-Scale Tikhonov Regularization Scheme for Implicit Surface Modelling 2007 ,		1
9	Learning nonparametric kernel matrices from pairwise constraints 2007 ,		57
8	An Empirical Study on Large-Scale Content-Based Image Retrieval 2007 ,		7
7	Learning the unified kernel machines for classification 2006 ,		25
6	Large-scale text categorization by batch mode active learning 2006 ,		105
5	Time-dependent semantic similarity measure of queries using historical click-through data 2006 ,		27
4	A unified log-based relevance feedback scheme for image retrieval. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2006 , 18, 509-524	4.2	91
3	Batch mode active learning and its application to medical image classification 2006 ,		166
2	Collaborative image retrieval via regularized metric learning. <i>Multimedia Systems</i> , 2006 , 12, 34-44	2.2	34
1	Real-Time Non-rigid Shape Recovery Via Active Appearance Models for Augmented Reality. <i>Lecture Notes in Computer Science</i> , 2006 , 186-197	0.9	7