Wei Liu

List of Publications by Citations

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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.

189 papers	30,673 citations	56 h-index	175 g-index
197 ext. papers	42,358 ext. citations	5.7 avg, IF	7.62 L-index

#	Paper	IF	Citations
189	Going deeper with convolutions **2015**,		15491
188	SSD: Single Shot MultiBox Detector. *Lecture Notes in Computer Science*, **2016**, 21-37	0.9	5134
187	SCA-CNN: Spatial and Channel-Wise Attention in Convolutional Networks for Image Captioning **2017**,		653
186	CosFace: Large Margin Cosine Loss for Deep Face Recognition **2018**,		631
185	Supervised Discrete Hashing **2015**,		592
184	Attentive Collaborative Filtering **2017**,		347
183	Gated Fusion Network for Single Image Dehazing **2018**,		298
182	. *Proceedings of the IEEE*, **2016**, 104, 34-57	14.3	258
181	Tensor Robust Principal Component Analysis with a New Tensor Nuclear Norm. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 925-938	13.3	228
180	Pixel2Mesh: Generating 3D Mesh Models from Single RGB Images. *Lecture Notes in Computer Science*, **2018**, 55-71	0.9	208
179	Tensor Robust Principal Component Analysis: Exact Recovery of Corrupted Low-Rank Tensors via Convex Optimization **2016**,		197
178	Multi-Modal Curriculum Learning for Semi-Supervised Image Classification. *IEEE Transactions on Image Processing*, **2016**, 25, 3249-3260	8.7	175
177	Self-Supervised Adversarial Hashing Networks for Cross-Modal Retrieval **2018**,		144
176	Towards large-scale histopathological image analysis: hashing-based image retrieval. *IEEE Transactions on Medical Imaging*, **2015**, 34, 496-506	11.7	142
175	Learning Distance Metrics with Contextual Constraints for Image Retrieval		134
174	Unsupervised Deep Tracking **2019**,		133
173	Supervised hashing with kernels **2012**,		132

172	Discrete Collaborative Filtering **2016**,		131
171	Robust and Scalable Graph-Based Semisupervised Learning. *Proceedings of the IEEE*, **2012**, 100, 2624-2638	4.3	124
170	Reconstruction Network for Video Captioning **2018**,		103
169	Unsupervised Semantic-Preserving Adversarial Hashing for Image Search. *IEEE Transactions on Image Processing*, **2019**, 28, 4032-4044	8.7	100
168	Exploring Representativeness and Informativeness for Active Learning. *IEEE Transactions on Cybernetics*, **2017**, 47, 14-26	10.2	96
167	Bi-Real Net: Enhancing the Performance of 1-Bit CNNs with Improved Representational Capability and Advanced Training Algorithm. *Lecture Notes in Computer Science*, **2018**, 747-763	0.9	96
166	Semi-supervised distance metric learning for collaborative image retrieval and clustering. *ACM Transactions on Multimedia Computing, Communications and Applications*, **2010**, 6, 1-26	3.4	94
165	. *IEEE Transactions on Multimedia*, **2017**, 19, 2022-2032	6.6	90
164	Shared Predictive Cross-Modal Deep Quantization. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 5292-5303	10.3	90
163	Deep Self-Taught Learning for Weakly Supervised Object Localization **2017**,		89
162	CNN in MRF: Video Object Segmentation via Inference in a CNN-Based Higher-Order Spatio-Temporal MRF **2018**,		88
161	SIRF: Simultaneous Satellite Image Registration and Fusion in a Unified Framework. *IEEE Transactions on Image Processing*, **2015**, 24, 4213-24	8.7	87
160	Saliency propagation from simple to difficult **2015**,		87
159	Scalable similarity search with optimized kernel hashing **2010**,		84
158	Zero-Shot Visual Recognition Using Semantics-Preserving Adversarial Embedding Networks **2018**,		84
157	Efficient Decision-Based Black-Box Adversarial Attacks on Face Recognition **2019**,		83
156	Learning Binary Codes for Maximum Inner Product Search **2015**,		81
155	Task-dependent visual-codebook compression. *IEEE Transactions on Image Processing*, **2012**, 21, 2282-93	8.7	81

154	Learning Hash Codes with Listwise Supervision **2013**,		81
153	Label Propagation via Teaching-to-Learn and Learning-to-Teach. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 1452-1465	10.3	78
152	Semi-supervised distance metric learning for Collaborative Image Retrieval **2008**,		77
151	Efficient manifold ranking for image retrieval **2011**,		75
150	. *IEEE Transactions on Multimedia*, **2016**, 18, 208-218	6.6	74
149	. *IEEE Transactions on Multimedia*, **2017**, 19, 519-529	6.6	73
148	Trajectory-Based Modeling of Human Actions with Motion Reference Points. *Lecture Notes in Computer Science*, **2012**, 425-438	0.9	72
147	**2019**,		71
146	Image Fusion with Local Spectral Consistency and Dynamic Gradient Sparsity **2014**,		70
145	Multiple object tracking: A literature review. *Artificial Intelligence*, **2021**, 293, 103448	3.6	70
144	A Sufficient Condition for Convergences of Adam and RMSProp **2019**,		70
143	Deep Video Dehazing with Semantic Segmentation. *IEEE Transactions on Image Processing*, **2018**,	8.7	70
142	Real-Time Neural Style Transfer for Videos **2017**,		68
141	Recurrent Fusion Network for Image Captioning. *Lecture Notes in Computer Science*, **2018**, 510-526	0.9	68
140	Nonnegative local coordinate factorization for image representation. *IEEE Transactions on Image Processing*, **2013**, 22, 969-79	8.7	67
139	Face Anti-Spoofing: Model Matters, so Does Data **2019**,		65
138	Adversarial Spatio-Temporal Learning for Video Deblurring. *IEEE Transactions on Image Processing*, **2019**, 28, 291-301	8.7	64
137	Bidirectional Attentive Fusion with Context Gating for Dense Video Captioning **2018**,		61

136	Deep Spectral Clustering Using Dual Autoencoder Network **2019**,		59
135	Neural Compatibility Modeling with Attentive Knowledge Distillation **2018**,		57
134	**2019**,		56
133	Occlusion Robust Face Recognition Based on Mask Learning With Pairwise Differential Siamese Network **2019**,		53
132	Multi-Granularity Generator for Temporal Action Proposal **2019**,		53
131	Self-Supervised Spatio-Temporal Representation Learning for Videos by Predicting Motion and Appearance Statistics **2019**,		53
130	Visual Reranking through Weakly Supervised Multi-graph Learning **2013**,		52
129	Hierarchical Long Short-Term Concurrent Memory for Human Interaction Recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 1110-1118	13.3	52
128	Human Action Recognition in Unconstrained Videos by Explicit Motion Modeling. *IEEE Transactions on Image Processing*, **2015**, 24, 3781-95	8.7	51
127	Latent Max-Margin Multitask Learning With Skelets for 3-D Action Recognition. *IEEE Transactions on Cybernetics*, **2017**, 47, 439-448	10.2	49
126	Super-Identity Convolutional Neural Network for Face Hallucination. *Lecture Notes in Computer Science*, **2018**, 196-211	0.9	48
125	Stochastic Quasi-Newton Methods for Nonconvex Stochastic Optimization. *SIAM Journal on Optimization*, **2017**, 27, 927-956	2	47
124	Unsupervised One-Class Learning for Automatic Outlier Removal **2014**,		47
123	Semantic Structure-based Unsupervised Deep Hashing **2018**,		47
122	Deblurring by Realistic Blurring **2020**,		47
121	Graph Convolutional Network Hashing. *IEEE Transactions on Cybernetics*, **2020**, 50, 1460-1472	10.2	47
120	Learning to Generate Time-Lapse Videos Using Multi-stage Dynamic Generative Adversarial Networks **2018**,		47
119	Controllable Video Captioning With POS Sequence Guidance Based on Gated Fusion Network **2019**,		44

118	Spatiotemporal Co-attention Recurrent Neural Networks for Human-Skeleton Motion Prediction. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	43
117	Noise resistant graph ranking for improved web image search **2011**,		41
116	Discrete hyper-graph matching **2015**,		40
115	Residual Regression With Semantic Prior for Crowd Counting **2019**,		40
114	Joint Intermodal and Intramodal Label Transfers for Extremely Rare or Unseen Classes. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2017**, 39, 1360-1373	13.3	38
113	Null Space Approach of Fisher Discriminant Analysis for Face Recognition. *Lecture Notes in Computer Science*, **2004**, 32-44	0.9	38
112	Top Rank Supervised Binary Coding for Visual Search **2015**,		37
111	Semi-supervised sparse metric learning using alternating linearization optimization **2010**,		37
110	Long-Term Human Motion Prediction by Modeling Motion Context and Enhancing Motion Dynamics **2018**,		36
109	Deep Learning Driven Visual Path Prediction From a Single Image. *IEEE Transactions on Image Processing*, **2016**, 25, 5892-5904	8.7	36
108	DistillHash: Unsupervised Deep Hashing by Distilling Data Pairs **2019**,		36
107	Left-Right Comparative Recurrent Model for Stereo Matching **2018**,		36
106	Multi-label Learning with Missing Labels Using Mixed Dependency Graphs. *International Journal of Computer Vision*, **2018**, 126, 875-896	10.6	35
105	A Reinforced Topic-Aware Convolutional Sequence-to-Sequence Model for Abstractive Text Summarization **2018**,		35
104	NDDR-CNN: Layerwise Feature Fusing in Multi-Task CNNs by Neural Discriminative Dimensionality Reduction **2019**,		35
103	Unsupervised Image Captioning **2019**,		34
102	End-to-End Active Object Tracking and Its Real-World Deployment via Reinforcement Learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 1317-1332	13.3	34
101	When Location Meets Social Multimedia. *ACM Transactions on Intelligent Systems and Technology*, **2015**, 6, 1-18	8	32

100	Towards Photo-Realistic Virtual Try-On by Adaptively Generating<-Preserving Image Content **2020**,		32
99	Detecting Faces Using Inside Cascaded Contextual CNN **2017**,		31
98	Unsupervised Image-to-Image Translation with Stacked Cycle-Consistent Adversarial Networks. *Lecture Notes in Computer Science*, **2018**, 186-201	0.9	31
97	Central Similarity Quantization for Efficient Image and Video Retrieval **2020**,		31
96	Regularizing RNNs for Caption Generation by Reconstructing the Past with the Present **2018**,		31
95	Weakly supervised visual dictionary learning by harnessing image attributes. *IEEE Transactions on Image Processing*, **2014**, 23, 5400-11	8.7	30
94	Beyond Brightening Low-light Images. *International Journal of Computer Vision*, **2021**, 129, 1013-1037	10.6	30
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92	Classification by Retrieval **2017**,		28
91	Tagging Like Humans: Diverse and Distinct Image Annotation **2018**,		28
90	MVF-Net: Multi-View 3D Face Morphable Model Regression **2019**,		27
89	Orthogonal Deep Features Decomposition for Age-Invariant Face Recognition. *Lecture Notes in Computer Science*, **2018**, 764-779	0.9	26
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87	Generalizing Face Forgery Detection with High-frequency Features **2021**,		24
86	Unsupervised Deep Representation Learning for Real-Time Tracking. *International Journal of Computer Vision*, **2021**, 129, 400-418	10.6	24
85	Dictionary Pair Learning on Grassmann Manifolds for Image Denoising. *IEEE Transactions on Image Processing*, **2015**, 24, 4556-69	8.7	23
84	VideoMoCo: Contrastive Video Representation Learning with Temporally Adversarial Examples **2021**,		23
83	Learning Joint Gait Representation via Quintuplet Loss Minimization **2019**,		22

82	Toward Efficient Action Recognition: Principal Backpropagation for Training Two-Stream Networks. *IEEE Transactions on Image Processing*, **2019**, 28, 1773-1782	8.7	22
81	Video Re-localization. *Lecture Notes in Computer Science*, **2018**, 55-70	0.9	20
80	Video De-Fencing. *IEEE Transactions on Circuits and Systems for Video Technology*, **2014**, 24, 1111-1121	6.4	19
79	Diverse Image Annotation **2017**,		19
78	Compressing Convolutional Neural Networks via Factorized Convolutional Filters **2019**,		18
77	Reconstruct and Represent Video Contents for Captioning via Reinforcement Learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 3088-3101	13.3	18
76	PointPWC-Net: Cost Volume on Point Clouds for (Self-)Supervised Scene Flow Estimation. *Lecture Notes in Computer Science*, **2020**, 88-107	0.9	17
75	An Efficient Semi-Supervised Clustering Algorithm with Sequential Constraints **2015**,		16
74	Stochastic Gradient Made Stable: A Manifold Propagation Approach for Large-Scale Optimization. *IEEE Transactions on Knowledge and Data Engineering*, **2017**, 29, 458-471	4.2	16
73	Scalable mammogram retrieval using Anchor Graph Hashing **2014**,		16
72	Exact Adversarial Attack to Image Captioning via Structured Output Learning With Latent Variables **2019**,		16
71	Bi-Real Net: Binarizing Deep Network Towards Real-Network Performance. *International Journal of Computer Vision*, **2020**, 128, 202-219	10.6	15
70	Efficient robust conditional random fields. *IEEE Transactions on Image Processing*, **2015**, 24, 3124-36	8.7	14
69	Reversed Spectral Hashing. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 2441-2449	10.3	14
68	Parser-Free Virtual Try-on via Distilling Appearance Flows **2021**,		14
67	Multimedia Hashing and Networking. *IEEE MultiMedia*, **2016**, 23, 75-79	2.1	14
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64	Scalable Mammogram Retrieval Using Composite Anchor Graph Hashing With Iterative Quantization. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 2450-2460	6.4	13
63	Semantic Conditioned Dynamic Modulation for Temporal Sentence Grounding in Videos. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, PP,	13.3	13
62	ArtFlow: Unbiased Image Style Transfer via Reversible Neural Flows **2021**,		13
61	MTL-NAS: Task-Agnostic Neural Architecture Search Towards General-Purpose Multi-Task Learning **2020**,		13
60	**2019**,		13
59	Multi-modal self-paced learning for image classification. *Neurocomputing*, **2018**, 309, 134-144	5.4	12
58	Learning Modality Interaction for Temporal Sentence Localization and Event Captioning in Videos. *Lecture Notes in Computer Science*, **2020**, 333-351	0.9	12
57	Mining histopathological images via composite hashing and online learning. *Lecture Notes in Computer Science*, **2014**, 17, 479-86	0.9	12
56	Spatio-Temporal Video Re-Localization by Warp LSTM **2019**,		12
55	Rank Preserving Hashing for Rapid Image Search **2015**,		11
54	Mining histopathological images via hashing-based scalable image retrieval **2014**,		11
53	Scalable histopathological image analysis via active learning. *Lecture Notes in Computer Science*, **2014**, 17, 369-76	0.9	11
52	. *IEEE Transactions on Multimedia*, **2016**, 18, 2161-2170	6.6	11
51	Image Defogging Quality Assessment: Real-World Database and Method. *IEEE Transactions on Image Processing*, **2021**, 30, 176-190	8.7	11
50	Pixel2Mesh: 3D Mesh Model Generation via Image Guided Deformation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 3600-3613	13.3	10
49	Face Recognition via Archetype Hull Ranking **2013**,		10
48	Auxiliary Training Information Assisted Visual Recognition. *IPSJ Transactions on Computer Vision and Applications*, **2015**, 7, 138-150	3.3	10
47	Video Classification via Weakly Supervised Sequence Modeling. *Computer Vision and Image Understanding*, **2016**, 152, 79-87	4.3	10

46	Joint Representation and Estimator Learning for Facial Action Unit Intensity Estimation **2019**,		10
45	Sub-Selective Quantization for Learning Binary Codes in Large-Scale Image Search. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2018**, 40, 1526-1532	13.3	9
44	Mining spatiotemporal video patterns towards robust action retrieval. *Neurocomputing*, **2013**, 105, 61-69	5.4	9
43	Improving Event Extraction via Multimodal Integration **2017**,		9
42	Two-Stage Hashing for Fast Document Retrieval **2014**,		9
41	Neural Stereoscopic Image Style Transfer. *Lecture Notes in Computer Science*, **2018**, 56-71	0.9	9
40	Context-Gated Convolution. *Lecture Notes in Computer Science*, **2020**, 701-718	0.9	9
39	Face Super-Resolution Guided by 3D Facial Priors. *Lecture Notes in Computer Science*, **2020**, 763-780	0.9	9
38	Knowledge transfer for spectral clustering. *Pattern Recognition*, **2018**, 81, 484-496	7.7	9
37	Spatio-temporal Embedding for Statistical Face Recognition from Video. *Lecture Notes in Computer Science*, **2006**, 374-388	0.9	9
36	Can Visual Recognition Benefit from Auxiliary Information in Training?. *Lecture Notes in Computer Science*, **2015**, 65-80	0.9	8
35	A Deep Bayesian Tensor-Based System for Video Recommendation. *ACM Transactions on Information Systems*, **2019**, 37, 1-22	4.8	8
34	Dual Skipping Networks **2018**,		8
33	Matching Image and Sentence With Multi-Faceted Representations. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 1-1	6.4	7
32	Joint Face Image Restoration and Frontalization for Recognition. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	7
31	A Personal Privacy Preserving Framework **2018**,		6
30	Optimal semi-supervised metric learning for image retrieval **2012**,		6
29	Disentangled Cycle Consistency for Highly-realistic Virtual Try-On **2021**,		6

28	Modeling Varying Camera-IMU Time Offset in Optimization-Based Visual-Inertial Odometry. *Lecture Notes in Computer Science*, **2018**, 491-507	0.9	6
27	Pyramid Architecture Search for Real-Time Image Deblurring **2021**,		6
26	Localizing web videos using social images. *Information Sciences*, **2015**, 302, 122-131	7.7	5
25	Distribution Calibration in Riemannian Symmetric Space. *IEEE Transactions on Systems, Man, and Cybernetics*, **2011**, 41, 921-30		5
24	Incremental Multi-graph Matching via Diversity and Randomness Based Graph Clustering. *Lecture Notes in Computer Science*, **2018**, 142-158	0.9	5
23	Multi-modal sequence model with gated fully convolutional blocks for micro-video venue classification. *Multimedia Tools and Applications*, **2020**, 79, 6709-6726	2.5	5
22	Temporally Coherent Video Harmonization Using Adversarial Networks. *IEEE Transactions on Image Processing*, **2020**, 29, 214-224	8.7	5
21	Fine-grained Video Attractiveness Prediction Using Multimodal Deep Learning on a Large Real-world Dataset **2018**,		5
20	Image-to-Video Generation via 3D Facial Dynamics. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	4
19	Learning for 3D understanding. *Neurocomputing*, **2015**, 151, 531-532	5.4	3
18	Understanding image structure via hierarchical shape parsing **2015**,		3
17	Relevance aggregation projections for image retrieval **2008**,		3
16	Vulnerability vs. Reliability: Disentangled Adversarial Examples for Cross-Modal Learning **2020**,		3
15	Theoretic Analysis and Extremely Easy Algorithms for Domain Adaptive Feature Learning **2017**,		3
14	Video co-segmentation based on directed graph. *Multimedia Tools and Applications*, **2019**, 78, 10353-10372	2.5	3
13	. *IEEE Transactions on Multimedia*, **2020**, 22, 760-774	6.6	3
12	Query-dependent visual dictionary adaptation for image reranking **2013**,		2
11	Robust multi-class transductive learning with graphs		2

10	Progressive Multistage Learning for Discriminative Tracking. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	2
9	Anytime Recognition with Routing Convolutional Networks. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 1875-1886	13.3	2
8	Beyond Monocular Deraining: Parallel Stereo Deraining Network Via Semantic Prior. *International Journal of Computer Vision*,	10.6	2
7	Weakly supervised topic grouping of YouTube search results **2012**,		1
6	Deep Residual Equivariant Mapping for Multi-angle Face Recognition. *Lecture Notes in Computer Science*, **2019**, 145-154	0.9	1
5	TSCDNet+: A highly robust substation anomaly detection method. *Optik*, **2021**, 246, 167808	2.5	1
4	Fast Stochastic Ordinal Embedding With Variance Reduction and Adaptive Step Size. *IEEE Transactions on Knowledge and Data Engineering*, **2021**, 33, 2467-2478	4.2	0
3	Quantized Adam with Error Feedback. *ACM Transactions on Intelligent Systems and Technology*, **2021**, 12, 1-26	8	0
2	Weakly supervised codebook learning by iterative label propagation with graph quantization. *Signal Processing*, **2013**, 93, 2274-2283	4.4	
1	Deep Camera-Aware Metric Learning for Person Reidentification. *Wireless Communications and Mobile Computing*, **2021**, 2021, 1-9	1.9	