

Wei Liu

List of Publications by Year in descending order

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194
papers

56,770
citations

57719

44
h-index

34964

98
g-index

197
all docs

197
docs citations

197
times ranked

35231
citing authors

#	ARTICLE	IF	CITATIONS
1	EDFace-Celeb-1 M: Benchmarking Face Hallucination With a Million-Scale Dataset. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 3968-3978.	9.7	4
2	Progressive Multistage Learning for Discriminative Tracking. IEEE Transactions on Cybernetics, 2022, 52, 3519-3530.	6.2	4
3	Spatiotemporal Co-Attention Recurrent Neural Networks for Human-Skeleton Motion Prediction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3300-3315.	9.7	124
4	Image-to-Video Generation via 3D Facial Dynamics. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1805-1819.	5.6	15
5	Joint Face Image Restoration and Frontalization for Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1285-1298.	5.6	27
6	Beyond Monocular Deraining: Parallel Stereo Deraining Network Via Semantic Prior. International Journal of Computer Vision, 2022, 130, 1754-1769.	10.9	19
7	Pixel2Mesh: 3D Mesh Model Generation via Image Guided Deformation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3600-3613.	9.7	33
8	Unsupervised Deep Representation Learning for Real-Time Tracking. International Journal of Computer Vision, 2021, 129, 400-418.	10.9	69
9	Hierarchical Long Short-Term Concurrent Memory for Human Interaction Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1110-1118.	9.7	103
10	Anytime Recognition with Routing Convolutional Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1875-1886.	9.7	7
11	Fast Stochastic Ordinal Embedding With Variance Reduction and Adaptive Step Size. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2467-2478.	4.0	2
12	Image Defogging Quality Assessment: Real-World Database and Method. IEEE Transactions on Image Processing, 2021, 30, 176-190.	6.0	46
13	Deep Camera-Aware Metric Learning for Person Reidentification. Wireless Communications and Mobile Computing, 2021, 2021, 1-9.	0.8	0
14	Multiple object tracking: A literature review. Artificial Intelligence, 2021, 293, 103448.	3.9	323
15	Quantized Adam with Error Feedback. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-26.	2.9	8
16	TSCDNet+: A highly robust substation anomaly detection method. Optik, 2021, 246, 167808.	1.4	2
17	Beyond Brightening Low-light Images. International Journal of Computer Vision, 2021, 129, 1013-1037.	10.9	252
18	Generalizing Face Forgery Detection with High-frequency Features. , 2021, , .		139

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19	Parser-Free Virtual Try-on via Distilling Appearance Flows. , 2021, , .		71
20	ArtFlow: Unbiased Image Style Transfer via Reversible Neural Flows. , 2021, , .		74
21	Disentangled Cycle Consistency for Highly-realistic Virtual Try-On. , 2021, , .		45
22	VideoMoCo: Contrastive Video Representation Learning with Temporally Adversarial Examples. , 2021, , .		120
23	Human-like Controllable Image Captioning with Verb-specific Semantic Roles. , 2021, , .		33
24	Adversarial Attack on Deep Cross-Modal Hamming Retrieval. , 2021, , .		8
25	Pyramid Architecture Search for Real-Time Image Deblurring. , 2021, , .		16
26	SynFace: Face Recognition with Synthetic Data. , 2021, , .		40
27	Two-View Mammographic Mass Retrieval Using Deep Hashing. , 2021, , .		0
28	Self-supervised Video Representation Learning by Uncovering Spatio-temporal Statistics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, .	9.7	7
29	Graph Convolutional Network Hashing. IEEE Transactions on Cybernetics, 2020, 50, 1460-1472.	6.2	90
30	Tensor Robust Principal Component Analysis with a New Tensor Nuclear Norm. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 925-938.	9.7	500
31	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.	9.7	74
32	Reconstruct and Represent Video Contents for Captioning via Reinforcement Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 3088-3101.	9.7	44
33	Toward Making Unsupervised Graph Hashing Discriminative. IEEE Transactions on Multimedia, 2020, 22, 760-774.	5.2	6
34	Bi-Real Net: Binarizing Deep Network Towards Real-Network Performance. International Journal of Computer Vision, 2020, 128, 202-219.	10.9	48
35	Temporally Coherent Video Harmonization Using Adversarial Networks. IEEE Transactions on Image Processing, 2020, 29, 214-224.	6.0	8
36	Multi-modal sequence model with gated fully convolutional blocks for micro-video venue classification. Multimedia Tools and Applications, 2020, 79, 6709-6726.	2.6	12

#	ARTICLE	IF	CITATIONS
37	Deblurring by Realistic Blurring. , 2020, , .		192
38	Central Similarity Quantization for Efficient Image and Video Retrieval. , 2020, , .		162
39	Towards Photo-Realistic Virtual Try-On by Adaptively Generatingâ†”Preserving Image Content. , 2020, , .		130
40	MTL-NAS: Task-Agnostic Neural Architecture Search Towards General-Purpose Multi-Task Learning. , 2020, , .		35
41	Context-Gated Convolution. Lecture Notes in Computer Science, 2020, , 701-718.	1.0	23
42	Face Super-Resolution Guided by 3D Facial Priors. Lecture Notes in Computer Science, 2020, , 763-780.	1.0	37
43	PointPWC-Net: Cost Volume on Point Clouds for (Self-)Supervised Scene Flow Estimation. Lecture Notes in Computer Science, 2020, , 88-107.	1.0	63
44	Learning Modality Interaction for Temporal Sentence Localization and Event Captioning in Videos. Lecture Notes in Computer Science, 2020, , 333-351.	1.0	51
45	Semantic Conditioned Dynamic Modulation for Temporal Sentence Grounding in Videos. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	52
46	Vulnerability vs. Reliability: Disentangled Adversarial Examples for Cross-Modal Learning. , 2020, , .		9
47	Stacked Robust Adaptively Regularized Auto-Regressions for Domain Adaptation. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 561-574.	4.0	23
48	Matching Image and Sentence with Multi-faceted Representations. IEEE Transactions on Circuits and Systems for Video Technology, 2019, , 1-1.	5.6	16
49	Unsupervised Semantic-Preserving Adversarial Hashing for Image Search. IEEE Transactions on Image Processing, 2019, 28, 4032-4044.	6.0	139
50	Spatio-Temporal Video Re-Localization by Warp LSTM. , 2019, , .		24
51	Controllable Video Captioning With POS Sequence Guidance Based on Gated Fusion Network. , 2019, , .		111
52	Unsupervised Deep Tracking. , 2019, , .		270
53	Occlusion Robust Face Recognition Based on Mask Learning With Pairwise Differential Siamese Network. , 2019, , .		162
54	Learning Joint Gait Representation via Quintuplet Loss Minimization. , 2019, , .		45

#	ARTICLE	IF	CITATIONS
55	Face Anti-Spoofing: Model Matters, so Does Data. , 2019, , .		131
56	MVF-Net: Multi-View 3D Face Morphable Model Regression. , 2019, , .		71
57	Decorrelated Adversarial Learning for Age-Invariant Face Recognition. , 2019, , .		58
58	NDDR-CNN: Layerwise Feature Fusing in Multi-Task CNNs by Neural Discriminative Dimensionality Reduction. , 2019, , .		125
59	DistillHash: Unsupervised Deep Hashing by Distilling Data Pairs. , 2019, , .		93
60	Joint Representation and Estimator Learning for Facial Action Unit Intensity Estimation. , 2019, , .		19
61	Multi-Granularity Generator for Temporal Action Proposal. , 2019, , .		125
62	Self-Supervised Spatio-Temporal Representation Learning for Videos by Predicting Motion and Appearance Statistics. , 2019, , .		114
63	Residual Regression With Semantic Prior for Crowd Counting. , 2019, , .		66
64	Unsupervised Image Captioning. , 2019, , .		121
65	Exact Adversarial Attack to Image Captioning via Structured Output Learning With Latent Variables. , 2019, , .		27
66	Compressing Convolutional Neural Networks via Factorized Convolutional Filters. , 2019, , .		57
67	Learning to Compose Dynamic Tree Structures for Visual Contexts. , 2019, , .		251
68	Efficient Decision-Based Black-Box Adversarial Attacks on Face Recognition. , 2019, , .		210
69	Image Deformation Meta-Networks for One-Shot Learning. , 2019, , .		148
70	MHP-VOS: Multiple Hypotheses Propagation for Video Object Segmentation. , 2019, , .		25
71	Deep Spectral Clustering Using Dual Autoencoder Network. , 2019, , .		153
72	A Sufficient Condition for Convergences of Adam and RMSProp. , 2019, , .		174

#	ARTICLE	IF	CITATIONS
73	Adversarial Spatio-Temporal Learning for Video Deblurring. IEEE Transactions on Image Processing, 2019, 28, 291-301.	6.0	111
74	Video co-segmentation based on directed graph. Multimedia Tools and Applications, 2019, 78, 10353-10372.	2.6	3
75	A Deep Bayesian Tensor-Based System for Video Recommendation. ACM Transactions on Information Systems, 2019, 37, 1-22.	3.8	14
76	Deep Video Dehazing With Semantic Segmentation. IEEE Transactions on Image Processing, 2019, 28, 1895-1908.	6.0	119
77	Toward Efficient Action Recognition: Principal Backpropagation for Training Two-Stream Networks. IEEE Transactions on Image Processing, 2019, 28, 1773-1782.	6.0	31
78	Deep Residual Equivariant Mapping for Multi-angle Face Recognition. Lecture Notes in Computer Science, 2019, , 145-154.	1.0	3
79	Multi-label Learning with Missing Labels Using Mixed Dependency Graphs. International Journal of Computer Vision, 2018, 126, 875-896.	10.9	60
80	DeepProduct. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-18.	3.0	15
81	Reversed Spectral Hashing. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2441-2449.	7.2	21
82	Sub-Selective Quantization for Learning Binary Codes in Large-Scale Image Search. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1526-1532.	9.7	11
83	Bidirectional Attentive Fusion with Context Gating for Dense Video Captioning. , 2018, , .		130
84	Self-Supervised Adversarial Hashing Networks for Cross-Modal Retrieval. , 2018, , .		276
85	Gated Fusion Network for Single Image Dehazing. , 2018, , .		552
86	Learning to Generate Time-Lapse Videos Using Multi-stage Dynamic Generative Adversarial Networks. , 2018, , .		84
87	Zero-Shot Visual Recognition Using Semantics-Preserving Adversarial Embedding Networks. , 2018, , .		167
88	Tagging Like Humans: Diverse and Distinct Image Annotation. , 2018, , .		40
89	CosFace: Large Margin Cosine Loss for Deep Face Recognition. , 2018, , .		1,374
90	Dual Skipping Networks. , 2018, , .		8

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91	CNN in MRF: Video Object Segmentation via Inference in a CNN-Based Higher-Order Spatio-Temporal MRF. , 2018, , .		142
92	Regularizing RNNs for Caption Generation by Reconstructing the Past with the Present. , 2018, , .		58
93	Reconstruction Network for Video Captioning. , 2018, , .		201
94	Left-Right Comparative Recurrent Model for Stereo Matching. , 2018, , .		59
95	Fine-grained Video Attractiveness Prediction Using Multimodal Deep Learning on a Large Real-world Dataset. , 2018, , .		10
96	Knowledge transfer for spectral clustering. Pattern Recognition, 2018, 81, 484-496.	5.1	20
97	Shared Predictive Cross-Modal Deep Quantization. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5292-5303.	7.2	111
98	A Personal Privacy Preserving Framework. , 2018, , .		13
99	Multi-modal self-paced learning for image classification. Neurocomputing, 2018, 309, 134-144.	3.5	19
100	Neural Compatibility Modeling with Attentive Knowledge Distillation. , 2018, , .		85
101	Recurrent Fusion Network for Image Captioning. Lecture Notes in Computer Science, 2018, , 510-526.	1.0	153
102	Unsupervised Image-to-Image Translation with Stacked Cycle-Consistent Adversarial Networks. Lecture Notes in Computer Science, 2018, , 186-201.	1.0	62
103	Modeling Varying Camera-IMU Time Offset in Optimization-Based Visual-Inertial Odometry. Lecture Notes in Computer Science, 2018, , 491-507.	1.0	11
104	Super-Identity Convolutional Neural Network for Face Hallucination. Lecture Notes in Computer Science, 2018, , 196-211.	1.0	79
105	Pixel2Mesh: Generating 3D Mesh Models from Single RGB Images. Lecture Notes in Computer Science, 2018, , 55-71.	1.0	498
106	Video Re-localization. Lecture Notes in Computer Science, 2018, , 55-70.	1.0	42
107	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.	1.0	220
108	Orthogonal Deep Features Decomposition for Age-Invariant Face Recognition. Lecture Notes in Computer Science, 2018, , 764-779.	1.0	60

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109	Long-Term Human Motion Prediction by Modeling Motion Context and Enhancing Motion Dynamics. , 2018, , .		80
110	Semantic Structure-based Unsupervised Deep Hashing. , 2018, , .		96
111	A Reinforced Topic-Aware Convolutional Sequence-to-Sequence Model for Abstractive Text Summarization. , 2018, , .		73
112	Incremental Multi-graph Matching via Diversity and Randomness Based Graph Clustering. Lecture Notes in Computer Science, 2018, , 142-158.	1.0	11
113	Neural Stereoscopic Image Style Transfer. Lecture Notes in Computer Science, 2018, , 56-71.	1.0	19
114	Exploring Representativeness and Informativeness for Active Learning. IEEE Transactions on Cybernetics, 2017, 47, 14-26.	6.2	136
115	Label Propagation via Teaching-to-Learn and Learning-to-Teach. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1452-1465.	7.2	103
116	Stochastic Quasi-Newton Methods for Nonconvex Stochastic Optimization. SIAM Journal on Optimization, 2017, 27, 927-956.	1.2	81
117	Classification by Retrieval. , 2017, , .		32
118	Attentive Collaborative Filtering. , 2017, , .		552
119	Asymmetric Binary Coding for Image Search. IEEE Transactions on Multimedia, 2017, 19, 2022-2032.	5.2	108
120	Discriminative Multi-instance Multitask Learning for 3D Action Recognition. IEEE Transactions on Multimedia, 2017, 19, 519-529.	5.2	94
121	Scalable Mammogram Retrieval Using Composite Anchor Graph Hashing With Iterative Quantization. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2450-2460.	5.6	14
122	Stochastic Gradient Made Stable: A Manifold Propagation Approach for Large-Scale Optimization. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 458-471.	4.0	22
123	Joint Intermodal and Intramodal Label Transfers for Extremely Rare or Unseen Classes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1360-1373.	9.7	48
124	SCA-CNN: Spatial and Channel-Wise Attention in Convolutional Networks for Image Captioning. , 2017, , .		1,139
125	Improving Event Extraction via Multimodal Integration. , 2017, , .		25
126	Real-Time Neural Style Transfer for Videos. , 2017, , .		126

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127	Detecting Faces Using Inside Cascaded Contextual CNN. , 2017, , .		50
128	Deep Self-Taught Learning for Weakly Supervised Object Localization. , 2017, , .		134
129	Diverse Image Annotation. , 2017, , .		22
130	Theoretic Analysis and Extremely Easy Algorithms for Domain Adaptive Feature Learning. , 2017, , .		3
131	Tensor Robust Principal Component Analysis: Exact Recovery of Corrupted Low-Rank Tensors via Convex Optimization. , 2016, , .		310
132	Multi-Modal Curriculum Learning for Semi-Supervised Image Classification. IEEE Transactions on Image Processing, 2016, 25, 3249-3260.	6.0	215
133	Video Classification via Weakly Supervised Sequence Modeling. Computer Vision and Image Understanding, 2016, 152, 79-87.	3.0	11
134	Hierarchical Visualization of Video Search Results for Topic-Based Browsing. IEEE Transactions on Multimedia, 2016, 18, 2161-2170.	5.2	13
135	Multimedia Hashing and Networking. IEEE MultiMedia, 2016, 23, 75-79.	1.5	18
136	Deep Learning Driven Visual Path Prediction From a Single Image. IEEE Transactions on Image Processing, 2016, 25, 5892-5904.	6.0	48
137	SSD: Single Shot MultiBox Detector. Lecture Notes in Computer Science, 2016, , 21-37.	1.0	11,879
138	Discrete Collaborative Filtering. , 2016, , .		197
139	Discriminative Dictionary Learning With Common Label Alignment for Cross-Modal Retrieval. IEEE Transactions on Multimedia, 2016, 18, 208-218.	5.2	92
140	Latent Max-Margin Multitask Learning With Skelets for 3-D Action Recognition. IEEE Transactions on Cybernetics, 2016, 47, 1-10.	6.2	57
141	Learning to Hash for Indexing Big Data—A Survey. Proceedings of the IEEE, 2016, 104, 34-57.	16.4	369
142	Auxiliary Training Information Assisted Visual Recognition. IPSJ Transactions on Computer Vision and Applications, 2015, 7, 138-150.	4.4	15
143	Top Rank Supervised Binary Coding for Visual Search. , 2015, , .		46
144	Learning Binary Codes for Maximum Inner Product Search. , 2015, , .		94

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145	Sparse Subspace Clustering for Incomplete Images. , 2015, , .		3
146	Discrete hyper-graph matching. , 2015, , .		50
147	Saliency propagation from simple to difficult. , 2015, , .		108
148	Understanding image structure via hierarchical shape parsing. , 2015, , .		3
149	Supervised Discrete Hashing. , 2015, , .		838
150	Localizing web videos using social images. Information Sciences, 2015, 302, 122-131.	4.0	5
151	Rank Preserving Hashing for Rapid Image Search. , 2015, , .		13
152	Efficient robust conditional random fields. IEEE Transactions on Image Processing, 2015, 24, 3124-3136.	6.0	17
153	An Efficient Semi-Supervised Clustering Algorithm with Sequential Constraints. , 2015, , .		23
154	SIRF: Simultaneous Satellite Image Registration and Fusion in a Unified Framework. IEEE Transactions on Image Processing, 2015, 24, 4213-4224.	6.0	123
155	Human Action Recognition in Unconstrained Videos by Explicit Motion Modeling. IEEE Transactions on Image Processing, 2015, 24, 3781-3795.	6.0	60
156	When Location Meets Social Multimedia. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-18.	2.9	40
157	Dictionary Pair Learning on Grassmann Manifolds for Image Denoising. IEEE Transactions on Image Processing, 2015, 24, 4556-4569.	6.0	41
158	Going deeper with convolutions. , 2015, , .		26,086
159	Towards Large-Scale Histopathological Image Analysis: Hashing-Based Image Retrieval. IEEE Transactions on Medical Imaging, 2015, 34, 496-506.	5.4	182
160	Can Visual Recognition Benefit from Auxiliary Information in Training?. Lecture Notes in Computer Science, 2015, , 65-80.	1.0	11
161	Mining histopathological images via hashing-based scalable image retrieval. , 2014, , .		15
162	Scalable mammogram retrieval using Anchor Graph Hashing. , 2014, , .		18

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163	Weakly Supervised Visual Dictionary Learning by Harnessing Image Attributes. IEEE Transactions on Image Processing, 2014, 23, 5400-5411.	6.0	34
164	Image Fusion with Local Spectral Consistency and Dynamic Gradient Sparsity. , 2014, , .		95
165	Unsupervised One-Class Learning for Automatic Outlier Removal. , 2014, , .		63
166	Video De-Fencing. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 1111-1121.	5.6	22
167	Scalable Histopathological Image Analysis via Active Learning. Lecture Notes in Computer Science, 2014, 17, 369-376.	1.0	13
168	Mining Histopathological Images via Composite Hashing and Online Learning. Lecture Notes in Computer Science, 2014, 17, 479-486.	1.0	12
169	Graduated Consistency-Regularized Optimization for Multi-graph Matching. Lecture Notes in Computer Science, 2014, , 407-422.	1.0	34
170	Two-Stage Hashing for Fast Document Retrieval. , 2014, , .		12
171	Mining spatiotemporal video patterns towards robust action retrieval. Neurocomputing, 2013, 105, 61-69.	3.5	12
172	Nonnegative Local Coordinate Factorization for Image Representation. IEEE Transactions on Image Processing, 2013, 22, 969-979.	6.0	83
173	Face Recognition via Archetype Hull Ranking. , 2013, , .		11
174	Weakly supervised codebook learning by iterative label propagation with graph quantization. Signal Processing, 2013, 93, 2274-2283.	2.1	0
175	Visual Reranking through Weakly Supervised Multi-graph Learning. , 2013, , .		59
176	Learning Hash Codes with Listwise Supervision. , 2013, , .		99
177	Query-dependent visual dictionary adaptation for image reranking. , 2013, , .		2
178	Trajectory-Based Modeling of Human Actions with Motion Reference Points. Lecture Notes in Computer Science, 2012, , 425-438.	1.0	106
179	Optimal semi-supervised metric learning for image retrieval. , 2012, , .		6
180	Supervised hashing with kernels. , 2012, , .		343

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181	Weakly supervised topic grouping of YouTube search results. , 2012, , .		1
182	Robust and Scalable Graph-Based Semisupervised Learning. Proceedings of the IEEE, 2012, 100, 2624-2638.	16.4	159
183	Task-Dependent Visual-Codebook Compression. IEEE Transactions on Image Processing, 2012, 21, 2282-2293.	6.0	89
184	Noise resistant graph ranking for improved web image search. , 2011, , .		55
185	Distribution Calibration in Riemannian Symmetric Space. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 921-930.	5.5	5
186	Efficient manifold ranking for image retrieval. , 2011, , .		95
187	Semi-supervised distance metric learning for collaborative image retrieval and clustering. ACM Transactions on Multimedia Computing, Communications and Applications, 2010, 6, 1-26.	3.0	129
188	Scalable similarity search with optimized kernel hashing. , 2010, , .		108
189	Semi-supervised sparse metric learning using alternating linearization optimization. , 2010, , .		43
190	Robust multi-class transductive learning with graphs. , 2009, , .		2
191	Semi-supervised distance metric learning for Collaborative Image Retrieval. , 2008, , .		98
192	Relevance aggregation projections for image retrieval. , 2008, , .		6
193	Null Space Approach of Fisher Discriminant Analysis for Face Recognition. Lecture Notes in Computer Science, 2004, , 32-44.	1.0	52
194	Learning Distance Metrics with Contextual Constraints for Image Retrieval. , 0, , .		187