

Xiaoou Tang

List of Publications by Year in descending order

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157
papers

29,176
citations

147566

31
h-index

223531

46
g-index

160
all docs

160
docs citations

160
times ranked

17743
citing authors

#	ARTICLE	IF	CITATIONS
1	Image Super-Resolution Using Deep Convolutional Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 295-307.	9.7	6,132
2	Single Image Haze Removal Using Dark Channel Prior. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2341-2353.	9.7	3,703
3	Deep Learning Face Attributes in the Wild. , 2015, , .		3,518
4	Deep Learning Face Representation from Predicting 10,000 Classes. , 2014, , .		1,296
5	WIDER FACE: A Face Detection Benchmark. , 2016, , .		1,011
6	Asymmetric bagging and random subspace for support vector machines-based relevance feedback in image retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1088-1099.	9.7	795
7	Face Photo-Sketch Synthesis and Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1955-1967.	9.7	659
8	Temporal Action Detection with Structured Segment Networks. , 2017, , .		567
9	Compression Artifacts Reduction by a Deep Convolutional Network. , 2015, , .		558
10	Learning Deep Representation for Imbalanced Classification. , 2016, , .		524
11	A large-scale car dataset for fine-grained categorization and verification. , 2015, , .		521
12	Texture information in run-length matrices. IEEE Transactions on Image Processing, 1998, 7, 1602-1609.	6.0	518
13	Semantic Image Segmentation via Deep Parsing Network. , 2015, , .		428
14	Hallucinating Face by Eigentransformation. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 425-434.	3.3	412
15	From Facial Parts Responses to Face Detection: A Deep Learning Approach. , 2015, , .		362
16	Deep Learning Strong Parts for Pedestrian Detection. , 2015, , .		348
17	Face recognition with learning-based descriptor. , 2010, , .		325
18	Learning Deep Representation for Face Alignment with Auxiliary Attributes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 918-930.	9.7	321

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19	A unified framework for subspace face recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1222-1228.	9.7	309
20	Face Sketch Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 50-57.	5.6	267
21	Coupled information-theoretic encoding for face photo-sketch recognition. , 2011, , .		265
22	Trace Ratio vs. Ratio Trace for Dimensionality Reduction. , 2007, , .		239
23	Deep Learning Identity-Preserving Face Space. , 2013, , .		226
24	Hybrid Deep Learning for Face Verification. , 2013, , .		199
25	Content-Based Photo Quality Assessment. IEEE Transactions on Multimedia, 2013, 15, 1930-1943.	5.2	196
26	Image Aesthetic Assessment: An experimental survey. IEEE Signal Processing Magazine, 2017, 34, 80-106.	4.6	195
27	From Facial Expression Recognition to Interpersonal Relation Prediction. International Journal of Computer Vision, 2018, 126, 550-569.	10.9	185
28	Random Sampling for Subspace Face Recognition. International Journal of Computer Vision, 2006, 70, 91-104.	10.9	179
29	Not All Pixels Are Equal: Difficulty-Aware Semantic Segmentation via Deep Layer Cascade. , 2017, , .		167
30	Switchable Deep Network for Pedestrian Detection. , 2014, , .		165
31	Robust 3D Face Recognition by Local Shape Difference Boosting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1858-1870.	9.7	154
32	Nonparametric Discriminant Analysis for Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 755-761.	9.7	153
33	Face sketch synthesis and recognition. , 2003, , .		133
34	Dual-space linear discriminant analysis for face recognition. , 0, , .		129
35	Hidden Factor Analysis for Age Invariant Face Recognition. , 2013, , .		122
36	An associate-predict model for face recognition. , 2011, , .		120

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37	Fast matting using large kernel matting Laplacian matrices. , 2010, , .		119
38	Unconstrained Face Alignment via Cascaded Compositional Learning. , 2016, , .		119
39	Conditional Infomax Learning: An Integrated Framework for Feature Extraction and Fusion. Lecture Notes in Computer Science, 2006, , 68-82.	1.0	118
40	Image Transformation Based on Learning Dictionaries across Image Spaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 367-380.	9.7	113
41	Random field topic model for semantic region analysis in crowded scenes from tracklets. , 2011, , .		110
42	Unsupervised video-shot segmentation and model-free anchorperson detection for news video story parsing. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 765-776.	5.6	108
43	Learning Social Relation Traits from Face Images. , 2015, , .		105
44	MoFAP: A Multi-level Representation for Action Recognition. International Journal of Computer Vision, 2016, 119, 254-271.	10.9	102
45	Learning Collective Crowd Behaviors with Dynamic Pedestrian-Agents. International Journal of Computer Vision, 2015, 111, 50-68.	10.9	100
46	EasyAlbum. , 2007, , .		95
47	Ranking with Uncertain Labels. , 2007, , .		94
48	Content-based photo quality assessment. , 2011, , .		91
49	Learning the Change for Automatic Image Cropping. , 2013, , .		86
50	Sparsifying Neural Network Connections for Face Recognition. , 2016, , .		86
51	Understanding collective crowd behaviors: Learning a Mixture model of Dynamic pedestrian-Agents. , 2012, , .		85
52	Face photo recognition using sketch. , 0, , .		80
53	Real time google and live image search re-ranking. , 2008, , .		74
54	Hybrid Deep Learning for Face Verification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1997-2009.	9.7	74

#	ARTICLE	IF	CITATIONS
55	IntentSearch: Capturing User Intention for One-Click Internet Image Search. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1342-1353.	9.7	73
56	Dynamic Cascades for Face Detection. , 2007, , .		72
57	A Nonlinear Approach for Face Sketch Synthesis and Recognition. , 0, , .		71
58	Face Recognition Using Kernel Scatter-Difference-Based Discriminant Analysis. IEEE Transactions on Neural Networks, 2006, 17, 1081-1085.	4.8	68
59	Aesthetic-Driven Image Enhancement by Adversarial Learning. , 2018, , .		68
60	Constrained clustering via spectral regularization. , 2009, , .		66
61	A Face Annotation Framework with Partial Clustering and Interactive Labeling. , 2007, , .		62
62	A Deep Sum-Product Architecture for Robust Facial Attributes Analysis. , 2013, , .		61
63	Synchronized Submanifold Embedding for Person-Independent Pose Estimation and Beyond. IEEE Transactions on Image Processing, 2009, 18, 202-210.	6.0	60
64	A Learning-to-Rank Approach for Image Color Enhancement. , 2014, , .		57
65	Which Components are Important for Interactive Image Searching?. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 3-11.	5.6	53
66	Unified subspace analysis for face recognition. , 2003, , .		49
67	Random sampling LDA for face recognition. , 0, , .		49
68	Insignificant shadow detection for video segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 1058-1064.	5.6	44
69	Rank-One Projections With Adaptive Margins for Face Recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1226-1236.	5.5	44
70	Linear Laplacian Discrimination for Feature Extraction. , 2007, , .		41
71	Query-specific visual semantic spaces for web image re-ranking. , 2011, , .		41
72	Laplacian PCA and Its Applications. , 2007, , .		38

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73	Hallucinating Faces: TensorPatch Super-Resolution and Coupled Residue Compensation. , 0, , .		37
74	Optical flow estimation using learned sparse model. , 2011, , .		35
75	Bayesian face recognition using Gabor features. , 2003, , .		34
76	Binary Plankton Image Classification. IEEE Journal of Oceanic Engineering, 2006, 31, 728-735.	2.1	34
77	Using Support Vector Machines to Enhance the Performance of Bayesian Face Recognition. IEEE Transactions on Information Forensics and Security, 2007, 2, 174-180.	4.5	33
78	Tensor linear Laplacian discrimination (TLLD) for feature extraction. Pattern Recognition, 2009, 42, 1941-1948.	5.1	33
79	Temporal Action Detection with Structured Segment Networks. International Journal of Computer Vision, 2020, 128, 74-95.	10.9	33
80	Bilinear Analysis for Kernel Selection and Nonlinear Feature Extraction. IEEE Transactions on Neural Networks, 2007, 18, 1442-1452.	4.8	31
81	A Parameter-Free Framework for General Supervised Subspace Learning. IEEE Transactions on Information Forensics and Security, 2007, 2, 69-76.	4.5	30
82	Hierarchical face parsing via deep learning. , 2012, , .		30
83	Misalignment-Robust Face Recognition. IEEE Transactions on Image Processing, 2010, 19, 1087-1096.	6.0	27
84	Trace Quotient Problems Revisited. Lecture Notes in Computer Science, 2006, , 232-244.	1.0	24
85	Recognize complex events from static images by fusing deep channels. , 2015, , .		22
86	Fast Algorithm for Updating the Discriminant Vectors of Dual-Space LDA. IEEE Transactions on Information Forensics and Security, 2009, 4, 418-427.	4.5	21
87	Nonparametric Subspace Analysis for Face Recognition. , 0, , .		20
88	Bayesian face recognition using support vector machine and face clustering. , 0, , .		18
89	A Closed-form Solution to 3D Reconstruction of Piecewise Planar Objects from Single Images. , 2007, , .		18
90	3D Face Recognition by Local Shape Difference Boosting. Lecture Notes in Computer Science, 2008, , 603-616.	1.0	17

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91	Change-Based Image Cropping with Exclusion and Compositional Features. International Journal of Computer Vision, 2015, 114, 74-87.	10.9	17
92	Automatic News Video Caption Extraction and Recognition. Lecture Notes in Computer Science, 2000, , 425-430.	1.0	17
93	Symmetric piecewise planar object reconstruction from a single image. , 2011, , .		16
94	Audio-Guided Video-Based Face Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 955-964.	5.6	15
95	Learning Semi-Riemannian Metrics for Semisupervised Feature Extraction. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 600-611.	4.0	14
96	Video based face recognition using multiple classifiers. , 0, , .		13
97	Neighbor Combination and Transformation for Hallucinating Faces. , 0, , .		13
98	Improved fingercode for filterbank-based fingerprint matching. , 0, , .		11
99	3D reconstruction of curved objects from single 2D line drawings. , 2009, , .		11
100	Object cut: Complex 3D object reconstruction through line drawing separation. , 2010, , .		11
101	Face Recognition via Archetype Hull Ranking. , 2013, , .		11
102	Off-line handwritten Chinese character stroke extraction. , 0, , .		10
103	Nonparametric discriminant analysis in relevance feedback for content-based image retrieval. , 2004, , .		10
104	Automatic Segmentation of Lung Fields from Radiographic Images of SARS Patients Using a New Graph Cuts Algorithm. , 2006, , .		10
105	Complex 3D General Object Reconstruction from Line Drawings. , 2013, , .		10
106	Learning to Disambiguate by Asking Discriminative Questions. , 2017, , .		10
107	Subspace Analysis Using Random Mixture Models. , 0, , .		9
108	Speech retrieval with video parsing for television news programs. , 0, , .		8

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109	Kernel full-space biased discriminant analysis. , 0, , .		8
110	Indoor shadow detection for video segmentation. , 0, , .		8
111	Face Recognition Using Face Patch Networks. , 2013, , .		8
112	Video caption detection and extraction using temporal information. , 0, , .		7
113	Frame synchronization and multi-level subspace analysis for video based face recognition. , 0, , .		7
114	Classification via semi-Riemannian spaces. , 2008, , .		7
115	Hallucinating Face by Eigentransformation with Distortion Reduction. Lecture Notes in Computer Science, 2004, , 88-94.	1.0	7
116	Discrete wavelet face graph matching. , 0, , .		6
117	Bayesian face recognition based on Gaussian mixture models. , 2004, , .		6
118	A Two-Stage Fusion Scheme using Multiple Fingerprint Impressions. , 2007, , .		6
119	Easytoon. , 2008, , .		6
120	Example-based 3D object reconstruction from line drawings. , 2012, , .		6
121	Video-based handwritten character recognition. , 2002, , .		5
122	Handwritten Chinese character recognition through a video camera. , 2000, , .		4
123	Using random subspace to combine multiple features for face recognition. , 0, , .		4
124	Misalignment-robust face recognition. , 2008, , .		4
125	Unsupervised and model-free news video segmentation. , 0, , .		3
126	Dynamic stroke information analysis for video-based handwritten Chinese character recognition. , 2003, , .		3

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127	An improved Bayesian face recognition algorithm in PCA subspace. , 0, , .		3
128	Minutiae-based Fingerprint Matching Using Subset Combination. , 2006, , .		3
129	Sketching in the air: A vision-based system for 3D object design. , 2008, , .		3
130	Guest editorial special issue on underwater image and video processing. IEEE Journal of Oceanic Engineering, 2003, 28, 569-569.	2.1	2
131	Face recognition using discrete wavelet graph. , 0, , .		2
132	SVM-based relevance feedback using random subspace method. , 0, , .		2
133	Kernel scatter-difference based discriminant analysis for face recognition. , 2004, , .		2
134	Improving indoor and outdoor face recognition using unified subspace analysis and gabor features. , 0, , .		2
135	Orthogonal complement component analysis for positive samples in SVM based relevance feedback image retrieval. , 0, , .		2
136	Efficient search of faces from complex line drawings. , 0, , .		2
137	Combining exclusive and continuous fingerprint classification. , 0, , .		2
138	Video-based handwritten Chinese character recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 167-174.	5.6	2
139	Tensor-based factor decomposition for relighting. , 2005, , .		2
140	Layered local prediction network with dynamic learning for face super-resolution. , 2005, , .		2
141	Face hallucination through dual associative learning. , 2005, , .		2
142	Largest-eigenvalue-theory for incremental principal component analysis. , 2005, , .		2
143	Rank-one Projections with Adaptive Margins for Face Recognition. , 0, , .		2
144	Discriminant Mutual Subspace Learning for Indoor and Outdoor Face Recognition. , 2007, , .		2

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145	Isoperimetric cut on a directed graph. , 2010, , .		2
146	Automatic story segmentation for spoken document retrieval. , 0, , .		1
147	Orientation-improved minutiae for fingerprint matching. , 2004, , .		1
148	Texture classification of sars infected region in radiographic image. , 0, , .		1
149	Comparative study: face recognition on unspecific persons using linear subspace methods. , 2005, , .		1
150	Efficient local reflectional symmetries detection. , 2005, , .		1
151	Fingerprint matching using minutiae and interpolation-based square tessellation fingercode. , 2005, , .		1
152	3D reconstruction of curved objects from single 2D line drawings. , 2009, , .		1
153	Constrained clustering via spectral regularization. , 2009, , .		1
154	Binary plankton image classification using random subspace. , 2005, , .		0
155	Feedback-based dynamic generalized LDA for face recognition. , 2005, , .		0
156	Responses to the Comments on "Plane-Based Optimization for 3D Object Reconstruction from Single Line Drawings" IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1726-1728.	9.7	0
157	Which Components Are Important For Interactive Image Searching?. IEEE Transactions on Circuits and Systems for Video Technology, 2009, , .	5.6	0