

# Xiaoou Tang

## 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.

132  
papers

18,304  
citations

53  
h-index

135  
g-index

160  
ext. papers

23,790  
ext. citations

7.1  
avg, IF

7.41  
L-index

#	Paper	IF	Citations
132	Image Super-Resolution Using Deep Convolutional Networks. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2016</b> , 38, 295-307	13.3	3636
131	Single Image Haze Removal Using Dark Channel Prior. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2011</b> , 33, 2341-53	13.3	2129
130	Deep Learning Face Attributes in the Wild <b>2015</b> ,		1779
129	Deep Learning Face Representation from Predicting 10,000 Classes <b>2014</b> ,		935
128	Asymmetric bagging and random subspace for support vector machines-based relevance feedback in image retrieval. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2006</b> , 28, 1088-99	13.3	645
127	WIDER FACE: A Face Detection Benchmark <b>2016</b> ,		498
126	Face photo-sketch synthesis and recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2009</b> , 31, 1955-67	13.3	478
125	Texture information in run-length matrices. <i>IEEE Transactions on Image Processing</i> , <b>1998</b> , 7, 1602-9	8.7	409
124	Compression Artifacts Reduction by a Deep Convolutional Network <b>2015</b> ,		348
123	A large-scale car dataset for fine-grained categorization and verification <b>2015</b> ,		335
122	Semantic Image Segmentation via Deep Parsing Network <b>2015</b> ,		330
121	Hallucinating face by eigentransformation. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2005</b> , 35, 425-434		311
120	Temporal Action Detection with Structured Segment Networks <b>2017</b> ,		304
119	Learning Deep Representation for Imbalanced Classification <b>2016</b> ,		263
118	From Facial Parts Responses to Face Detection: A Deep Learning Approach <b>2015</b> ,		254
117	Face recognition with learning-based descriptor <b>2010</b> ,		254
116	A unified framework for subspace face recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2004</b> , 26, 1222-8	13.3	243

115	Deep Learning Strong Parts for Pedestrian Detection <b>2015</b> ,		240
114	Learning Deep Representation for Face Alignment with Auxiliary Attributes. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2016</b> , 38, 918-30	13.3	237
113	Face sketch recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2004</b> , 14, 50-57	6.4	213
112	Coupled information-theoretic encoding for face photo-sketch recognition <b>2011</b> ,		204
111	Trace Ratio vs. Ratio Trace for Dimensionality Reduction <b>2007</b> ,		180
110	Deep Learning Identity-Preserving Face Space <b>2013</b> ,		174
109	Hybrid Deep Learning for Face Verification <b>2013</b> ,		154
108	Random Sampling for Subspace Face Recognition. <i>International Journal of Computer Vision</i> , <b>2006</b> , 70, 91-104	10.6	148
107	. <i>IEEE Transactions on Multimedia</i> , <b>2013</b> , 15, 1930-1943	6.6	146
106	Switchable Deep Network for Pedestrian Detection <b>2014</b> ,		127
105	Robust 3D face recognition by local shape difference boosting. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2010</b> , 32, 1858-70	13.3	119
104	Not All Pixels Are Equal: Difficulty-Aware Semantic Segmentation via Deep Layer Cascade <b>2017</b> ,		118
103	Nonparametric discriminant analysis for face recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2009</b> , 31, 755-61	13.3	115
102	Image Aesthetic Assessment: An experimental survey. <i>IEEE Signal Processing Magazine</i> , <b>2017</b> , 34, 80-106	9.4	110
101	From Facial Expression Recognition to Interpersonal Relation Prediction. <i>International Journal of Computer Vision</i> , <b>2018</b> , 126, 550-569	10.6	102
100	<b>2011</b> ,		95
99	Image transformation based on learning dictionaries across image spaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 367-80	13.3	93
98	Face sketch synthesis and recognition <b>2003</b> ,		90

97	Unconstrained Face Alignment via Cascaded Compositional Learning <b>2016</b> ,		87
96	Random field topic model for semantic region analysis in crowded scenes from tracklets <b>2011</b> ,		83
95	Fast matting using large kernel matting Laplacian matrices <b>2010</b> ,		82
94	Unsupervised video-shot segmentation and model-free anchorperson detection for news video story parsing. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2002</b> , 12, 765-776	6.4	78
93	Inter-modality Face Recognition. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 13-26	0.9	78
92	Ranking with Uncertain Labels <b>2007</b> ,		77
91	Learning Collective Crowd Behaviors with Dynamic Pedestrian-Agents. <i>International Journal of Computer Vision</i> , <b>2015</b> , 111, 50-68	10.6	76
90	MoFAP: A Multi-level Representation for Action Recognition. <i>International Journal of Computer Vision</i> , <b>2016</b> , 119, 254-271	10.6	76
89	Conditional Infomax Learning: An Integrated Framework for Feature Extraction and Fusion. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 68-82	0.9	75
88	Hidden Factor Analysis for Age Invariant Face Recognition <b>2013</b> ,		74
87	Learning Social Relation Traits from Face Images <b>2015</b> ,		70
86	EasyAlbum <b>2007</b> ,		70
85	Learning the Change for Automatic Image Cropping <b>2013</b> ,		61
84	Hybrid Deep Learning for Face Verification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2016</b> , 38, 1997-2009	13.3	58
83	Face recognition using kernel scatter-difference-based discriminant analysis. <i>IEEE Transactions on Neural Networks</i> , <b>2006</b> , 17, 1081-5		57
82	Face photo recognition using sketch		56
81	Dynamic Cascades for Face Detection <b>2007</b> ,		55
80	Sparsifying Neural Network Connections for Face Recognition <b>2016</b> ,		54

79	A Deep Sum-Product Architecture for Robust Facial Attributes Analysis <b>2013</b> ,		53
78	Synchronized submanifold embedding for person-independent pose estimation and beyond. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 202-10	8.7	52
77	Constrained clustering via spectral regularization <b>2009</b> ,		48
76	IntentSearch: Capturing User Intention for One-Click Internet Image Search. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2012</b> , 34, 1342-53	13.3	47
75	Real time google and live image search re-ranking <b>2008</b> ,		47
74	Content-based photo quality assessment <b>2011</b> ,		45
73	Aesthetic-Driven Image Enhancement by Adversarial Learning <b>2018</b> ,		45
72	A Face Annotation Framework with Partial Clustering and Interactive Labeling <b>2007</b> ,		44
71	Which Components are Important for Interactive Image Searching?. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2008</b> , 18, 3-11	6.4	43
70	Understanding collective crowd behaviors: Learning a Mixture model of Dynamic pedestrian-Agents <b>2012</b> ,		39
69	Rank-one projections with adaptive margins for face recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2007</b> , 37, 1226-36		39
68	A Learning-to-Rank Approach for Image Color Enhancement <b>2014</b> ,		37
67	Query-specific visual semantic spaces for web image re-ranking <b>2011</b> ,		37
66	Laplacian PCA and Its Applications <b>2007</b> ,		32
65	Linear Laplacian Discrimination for Feature Extraction <b>2007</b> ,		31
64	Insignificant shadow detection for video segmentation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2005</b> , 15, 1058-1064	6.4	31
63	Tensor linear Laplacian discrimination (TLLD) for feature extraction. <i>Pattern Recognition</i> , <b>2009</b> , 42, 1941-1948		28
62	Bilinear analysis for kernel selection and nonlinear feature extraction. <i>IEEE Transactions on Neural Networks</i> , <b>2007</b> , 18, 1442-52		27

61	Optical flow estimation using learned sparse model <b>2011</b> ,		26
60	Binary Plankton Image Classification. <i>IEEE Journal of Oceanic Engineering</i> , <b>2006</b> , 31, 728-735	3.3	26
59	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2007</b> , 2, 69-76	8	25
58	Using Support Vector Machines to Enhance the Performance of Bayesian Face Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2007</b> , 2, 174-180	8	25
57	Bayesian face recognition using Gabor features <b>2003</b> ,		23
56	Fast Algorithm for Updating the Discriminant Vectors of Dual-Space LDA. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2009</b> , 4, 418-427	8	20
55	Unified subspace analysis for face recognition <b>2003</b> ,		20
54	A nonlinear approach for face sketch synthesis and recognition		18
53	Trace Quotient Problems Revisited. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 232-244	0.9	18
52	Misalignment-robust face recognition. <i>IEEE Transactions on Image Processing</i> , <b>2010</b> , 19, 1087-96	8.7	16
51	Hallucinating faces: TensorPatch super-resolution and coupled residue compensation		16
50	Symmetric piecewise planar object reconstruction from a single image <b>2011</b> ,		15
49	Change-Based Image Cropping with Exclusion and Compositional Features. <i>International Journal of Computer Vision</i> , <b>2015</b> , 114, 74-87	10.6	14
48	Temporal Action Detection with Structured Segment Networks. <i>International Journal of Computer Vision</i> , <b>2020</b> , 128, 74-95	10.6	14
47	A Closed-form Solution to 3D Reconstruction of Piecewise Planar Objects from Single Images <b>2007</b> ,		13
46	Learning Semi-Riemannian Metrics for Semisupervised Feature Extraction. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2011</b> , 23, 600-611	4.2	12
45	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2009</b> , 19, 955-964	6.4	11
44	Face Recognition via Archetype Hull Ranking <b>2013</b> ,		10

43	3D Face Recognition by Local Shape Difference Boosting. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 603-616	10
42	Object cut: Complex 3D object reconstruction through line drawing separation <b>2010</b> ,	9
41	Spatio-temporal Embedding for Statistical Face Recognition from Video. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 374-388	0.9 9
40	Automatic News Video Caption Extraction and Recognition. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 425-430	0.9 9
39	Recognize complex events from static images by fusing deep channels <b>2015</b> ,	8
38	Nonparametric subspace analysis for face recognition	8
37	Video based face recognition using multiple classifiers	8
36	Nonparametric discriminant analysis in relevance feedback for content-based image retrieval <b>2004</b> ,	7
35	Complex 3D General Object Reconstruction from Line Drawings <b>2013</b> ,	6
34	Automatic Segmentation of Lung Fields from Radiographic Images of SARS Patients Using a New Graph Cuts Algorithm <b>2006</b> ,	6
33	Random sampling LDA for face recognition	6
32	Bayesian face recognition based on Gaussian mixture models <b>2004</b> ,	6
31	Dual-space linear discriminant analysis for face recognition	6
30	Off-line handwritten Chinese character stroke extraction	6
29	Hallucinating Face by Eigentransformation with Distortion Reduction. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 88-94	0.9 6
28	Learning to Disambiguate by Asking Discriminative Questions <b>2017</b> ,	5
27	Face Recognition Using Face Patch Networks <b>2013</b> ,	5
26	Easytoon <b>2008</b> ,	5

25	3D reconstruction of curved objects from single 2D line drawings <b>2009</b> ,		4
24	A Two-Stage Fusion Scheme using Multiple Fingerprint Impressions <b>2007</b> ,		3
23	Subspace analysis using random mixture models		3
22	Video caption detection and extraction using temporal information		3
21	Discrete wavelet face graph matching		3
20	Hierarchical face parsing via deep learning <b>2012</b> ,		2
19	Isoperimetric cut on a directed graph <b>2010</b> ,		2
18	Discriminant Mutual Subspace Learning for Indoor and Outdoor Face Recognition <b>2007</b> ,		2
17	Neighbor combination and transformation for hallucinating faces		2
16	Using random subspace to combine multiple features for face recognition		2
15	Guest editorial special issue on underwater image and video processing. <i>IEEE Journal of Oceanic Engineering</i> , <b>2003</b> , 28, 569-569	3-3	2
14	Video-based handwritten Chinese character recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2005</b> , 15, 167-174	6.4	2
13	Speech retrieval with video parsing for television news programs		2
12	Video-based handwritten character recognition <b>2002</b> ,		2
11	Classification via semi-Riemannian spaces <b>2008</b> ,		1
10	Sketching in the air: A vision-based system for 3D object design <b>2008</b> ,		1
9	Largest-eigenvalue-theory for incremental principal component analysis <b>2005</b> ,		1
8	Orientation-improved minutiae for fingerprint matching <b>2004</b> ,		1



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- 6 Kernel full-space biased discriminant analysis 1
- 5 Bayesian face recognition using support vector machine and face clustering 1
- 4 Indoor shadow detection for video segmentation 1
- 3 3D reconstruction of curved objects from single 2D line drawings 1
- 2 Constrained clustering via spectral regularization 1
- 1 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<sup>13,3</sup>