

# Xiaoou Tang

## 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.

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	Temporal Action Detection with Structured Segment Networks. <i>International Journal of Computer Vision</i> , <b>2020</b> , 128, 74-95	10.6	14
131	From Facial Expression Recognition to Interpersonal Relation Prediction. <i>International Journal of Computer Vision</i> , <b>2018</b> , 126, 550-569	10.6	102
130	Aesthetic-Driven Image Enhancement by Adversarial Learning <b>2018</b> ,		45
129	Image Aesthetic Assessment: An experimental survey. <i>IEEE Signal Processing Magazine</i> , <b>2017</b> , 34, 80-106	9.4	110
128	Temporal Action Detection with Structured Segment Networks <b>2017</b> ,		304
127	Not All Pixels Are Equal: Difficulty-Aware Semantic Segmentation via Deep Layer Cascade <b>2017</b> ,		118
126	Learning to Disambiguate by Asking Discriminative Questions <b>2017</b> ,		5
125	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
124	MoFAP: A Multi-level Representation for Action Recognition. <i>International Journal of Computer Vision</i> , <b>2016</b> , 119, 254-271	10.6	76
123	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
122	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
121	Sparsifying Neural Network Connections for Face Recognition <b>2016</b> ,		54
120	Learning Deep Representation for Imbalanced Classification <b>2016</b> ,		263
119	WIDER FACE: A Face Detection Benchmark <b>2016</b> ,		498
118	Unconstrained Face Alignment via Cascaded Compositional Learning <b>2016</b> ,		87
117	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
116	Learning Collective Crowd Behaviors with Dynamic Pedestrian-Agents. <i>International Journal of Computer Vision</i> , <b>2015</b> , 111, 50-68	10.6	76

115	Semantic Image Segmentation via Deep Parsing Network <b>2015</b> ,	330
114	Deep Learning Face Attributes in the Wild <b>2015</b> ,	1779
113	Compression Artifacts Reduction by a Deep Convolutional Network <b>2015</b> ,	348
112	From Facial Parts Responses to Face Detection: A Deep Learning Approach <b>2015</b> ,	254
111	Deep Learning Strong Parts for Pedestrian Detection <b>2015</b> ,	240
110	Recognize complex events from static images by fusing deep channels <b>2015</b> ,	8
109	Learning Social Relation Traits from Face Images <b>2015</b> ,	70
108	A large-scale car dataset for fine-grained categorization and verification <b>2015</b> ,	335
107	Deep Learning Face Representation from Predicting 10,000 Classes <b>2014</b> ,	935
106	Switchable Deep Network for Pedestrian Detection <b>2014</b> ,	127
105	A Learning-to-Rank Approach for Image Color Enhancement <b>2014</b> ,	37
104	. <i>IEEE Transactions on Multimedia</i> , <b>2013</b> , 15, 1930-1943	6.6 146
103	Learning the Change for Automatic Image Cropping <b>2013</b> ,	61
102	Deep Learning Identity-Preserving Face Space <b>2013</b> ,	174
101	Face Recognition via Archetype Hull Ranking <b>2013</b> ,	10
100	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
99	Hidden Factor Analysis for Age Invariant Face Recognition <b>2013</b> ,	74
98	Face Recognition Using Face Patch Networks <b>2013</b> ,	5

97	Hybrid Deep Learning for Face Verification <b>2013</b> ,		154
96	A Deep Sum-Product Architecture for Robust Facial Attributes Analysis <b>2013</b> ,		53
95	Complex 3D General Object Reconstruction from Line Drawings <b>2013</b> ,		6
94	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
93	Hierarchical face parsing via deep learning <b>2012</b> ,		2
92	Understanding collective crowd behaviors: Learning a Mixture model of Dynamic pedestrian-Agents <b>2012</b> ,		39
91	Symmetric piecewise planar object reconstruction from a single image <b>2011</b> ,		15
90	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
89	Content-based photo quality assessment <b>2011</b> ,		45
88	<b>2011</b> ,		95
87	Query-specific visual semantic spaces for web image re-ranking <b>2011</b> ,		37
86	Coupled information-theoretic encoding for face photo-sketch recognition <b>2011</b> ,		204
85	Optical flow estimation using learned sparse model <b>2011</b> ,		26
84	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
83	Random field topic model for semantic region analysis in crowded scenes from tracklets <b>2011</b> ,		83
82	Isoperimetric cut on a directed graph <b>2010</b> ,		2
81	Fast matting using large kernel matting Laplacian matrices <b>2010</b> ,		82
80	Object cut: Complex 3D object reconstruction through line drawing separation <b>2010</b> ,		9

79	Face recognition with learning-based descriptor <b>2010</b> ,		254
78	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
77	Misalignment-robust face recognition. <i>IEEE Transactions on Image Processing</i> , <b>2010</b> , 19, 1087-96	8.7	16
76	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
75	Tensor linear Laplacian discrimination (TLLD) for feature extraction. <i>Pattern Recognition</i> , <b>2009</b> , 42, 1941-1948	13.3	28
74	3D reconstruction of curved objects from single 2D line drawings <b>2009</b> ,		4
73	Constrained clustering via spectral regularization <b>2009</b> ,		48
72	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
71	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2009</b> , 19, 955-964	6.4	11
70	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
69	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
68	Responses to the Comments on Plane-Based Optimization for 3D Object Reconstruction from Single Line Drawings <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2009</b> , 31, 1726-1728	13.3	
67	Classification via semi-Riemannian spaces <b>2008</b> ,		1
66	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
65	3D Face Recognition by Local Shape Difference Boosting. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 603-616	13.3	10
64	Easytoon <b>2008</b> ,		5
63	Real time google and live image search re-ranking <b>2008</b> ,		47
62	Sketching in the air: A vision-based system for 3D object design <b>2008</b> ,		1

61	Trace Ratio vs. Ratio Trace for Dimensionality Reduction <b>2007</b> ,		180
60	Laplacian PCA and Its Applications <b>2007</b> ,		32
59	Bilinear analysis for kernel selection and nonlinear feature extraction. <i>IEEE Transactions on Neural Networks</i> , <b>2007</b> , 18, 1442-52		27
58	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2007</b> , 2, 69-76	8	25
57	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
56	A Two-Stage Fusion Scheme using Multiple Fingerprint Impressions <b>2007</b> ,		3
55	Linear Laplacian Discrimination for Feature Extraction <b>2007</b> ,		31
54	A Face Annotation Framework with Partial Clustering and Interactive Labeling <b>2007</b> ,		44
53	A Closed-form Solution to 3D Reconstruction of Piecewise Planar Objects from Single Images <b>2007</b> ,		13
52	EasyAlbum <b>2007</b> ,		70
51	Discriminant Mutual Subspace Learning for Indoor and Outdoor Face Recognition <b>2007</b> ,		2
50	Dynamic Cascades for Face Detection <b>2007</b> ,		55
49	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
48	Ranking with Uncertain Labels <b>2007</b> ,		77
47	Automatic Segmentation of Lung Fields from Radiographic Images of SARS Patients Using a New Graph Cuts Algorithm <b>2006</b> ,		6
46	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
45	Binary Plankton Image Classification. <i>IEEE Journal of Oceanic Engineering</i> , <b>2006</b> , 31, 728-735	3.3	26
44	Face recognition using kernel scatter-difference-based discriminant analysis. <i>IEEE Transactions on Neural Networks</i> , <b>2006</b> , 17, 1081-5		57

43	Random Sampling for Subspace Face Recognition. <i>International Journal of Computer Vision</i> , <b>2006</b> , 70, 91-104	10.6	148
42	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
41	Trace Quotient Problems Revisited. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 232-244	0.9	18
40	Spatio-temporal Embedding for Statistical Face Recognition from Video. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 374-388	0.9	9
39	Inter-modality Face Recognition. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 13-26	0.9	78
38	Largest-eigenvalue-theory for incremental principal component analysis <b>2005</b> ,		1
37	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
36	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
35	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
34	Bayesian face recognition based on Gaussian mixture models <b>2004</b> ,		6
33	Orientation-improved minutiae for fingerprint matching <b>2004</b> ,		1
32	Nonparametric discriminant analysis in relevance feedback for content-based image retrieval <b>2004</b> ,		7
31	Kernel scatter-difference based discriminant analysis for face recognition <b>2004</b> ,		1
30	Face sketch recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2004</b> , 14, 50-57	6.4	213
29	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
28	Hallucinating Face by Eigentransformation with Distortion Reduction. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 88-94	0.9	6
27	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
26	Face sketch synthesis and recognition <b>2003</b> ,		90

25	Unified subspace analysis for face recognition <b>2003</b> ,		20
24	Bayesian face recognition using Gabor features <b>2003</b> ,		23
23	Video-based handwritten character recognition <b>2002</b> ,		2
22	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
21	Automatic News Video Caption Extraction and Recognition. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 425-430	0.9	9
20	Texture information in run-length matrices. <i>IEEE Transactions on Image Processing</i> , <b>1998</b> , 7, 1602-9	8.7	409
19	Subspace analysis using random mixture models		3
18	Nonparametric subspace analysis for face recognition		8
17	Neighbor combination and transformation for hallucinating faces		2
16	A nonlinear approach for face sketch synthesis and recognition		18
15	Hallucinating faces: TensorPatch super-resolution and coupled residue compensation		16
14	Video caption detection and extraction using temporal information		3
13	Using random subspace to combine multiple features for face recognition		2
12	Random sampling LDA for face recognition		6
11	Kernel full-space biased discriminant analysis		1
10	Video based face recognition using multiple classifiers		8
9	Bayesian face recognition using support vector machine and face clustering		1
8	Dual-space linear discriminant analysis for face recognition		6



7	Indoor shadow detection for video segmentation	1
6	Speech retrieval with video parsing for television news programs	2
5	Face photo recognition using sketch	56
4	Off-line handwritten Chinese character stroke extraction	6
3	Discrete wavelet face graph matching	3
2	3D reconstruction of curved objects from single 2D line drawings	1
1	Constrained clustering via spectral regularization	1