

# Tsuhan Chen

## 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.

112 papers	2,499 citations	26 h-index	47 g-index
132 ext. papers	3,044 ext. citations	6.4 avg, IF	4.98 L-index

#	Paper	IF	Citations
112	The Painful Face - Pain Expression Recognition Using Active Appearance Models. <i>Image and Vision Computing</i> , <b>2009</b> , 27, 1788-1796	3.7	274
111	Image retrieval with geometry-preserving visual phrases <b>2011</b> ,		191
110	Aesthetic Visual Quality Assessment of Paintings. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2009</b> , 3, 236-252	7.5	147
109	Towards computational models of kinship verification <b>2010</b> ,		143
108	. <i>IEEE Transactions on Multimedia</i> , <b>2002</b> , 4, 260-268	6.6	103
107	A survey on image-based renderingRepresentation, sampling and compression. <i>Signal Processing: Image Communication</i> , <b>2004</b> , 19, 1-28	2.8	102
106	Audio-visual integration in multimodal communication. <i>Proceedings of the IEEE</i> , <b>1998</b> , 86, 837-852	14.3	100
105	Efficient feature extraction for 2D/3D objects in mesh representation		74
104	Interactively Co-segmentating Topically Related Images with Intelligent Scribble Guidance. <i>International Journal of Computer Vision</i> , <b>2011</b> , 93, 273-292	10.6	73
103	Robust Parking Space Detection Considering Inter-Space Correlation <b>2007</b> ,		69
102	Face authentication for multiple subjects using eigenflow. <i>Pattern Recognition</i> , <b>2003</b> , 36, 313-328	7.7	65
101	Spectral analysis for sampling image-based rendering data. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2003</b> , 13, 1038-1050	6.4	64
100	3D-Based Reasoning with Blocks, Support, and Stability <b>2013</b> ,		61
99	Eigenspace updating for non-stationary process and its application to face recognition. <i>Pattern Recognition</i> , <b>2003</b> , 36, 1945-1959	7.7	60
98	. <i>IEEE Transactions on Signal Processing</i> , <b>1995</b> , 43, 1090-1102	4.8	54
97	The painful face <b>2007</b> ,		48
96	Towards robust deconvolution of low-dose perfusion CT: sparse perfusion deconvolution using online dictionary learning. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 417-28	15.4	41

95	Aesthetic quality assessment of consumer photos with faces <b>2010</b> ,		39
94	. <i>IEEE Transactions on Signal Processing</i> , <b>1995</b> , 43, 1103-1115	4.8	39
93	Profile View Lip Reading <b>2007</b> ,		38
92	Robust Low-Dose CT Perfusion Deconvolution via Tensor Total-Variation Regularization. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1533-1548	11.7	35
91	Unsupervised Image Categorization and Object Localization using Topic Models and Correspondences between Images <b>2007</b> ,		32
90	High Performance Stereo Vision Designed for Massively Data Parallel Platforms. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2010</b> , 20, 1509-1519	6.4	29
89	A GMM parts based face representation for improved verification through relevance adaptation		27
88	A Topic-Motion Model for Unsupervised Video Object Discovery <b>2007</b> ,		26
87	Model-based error concealment for wireless video. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2002</b> , 12, 483-495	6.4	26
86	Tracking of multiple faces for human-computer interfaces and virtual environments		26
85	Data Fusion and Cost Minimization for Intrusion Detection. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2008</b> , 3, 381-389	8	25
84	Reinterpreting the application of gabor filters as a manipulation of the margin in linear support vector machines. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2010</b> , 32, 1335-41	13.3	23
83	Learning Patch Dependencies for Improved Pose Mismatched Face Verification		23
82	Audio-to-visual conversion for multimedia communication. <i>IEEE Transactions on Industrial Electronics</i> , <b>1998</b> , 45, 15-22	8.9	22
81	Proposed FPGA Hardware Architecture for High Frame Rate (>>100 fps) Face Detection Using Feature Cascade Classifiers <b>2007</b> ,		21
80	Floating-point bit-width optimization for low-power signal processing applications <b>2002</b> ,		17
79	A framework of extracting multi-scale features using multiple convolutional neural networks <b>2015</b> ,		16
78	A latent social approach to YouTube popularity prediction <b>2013</b> ,		16

77	A time-based adaptive retry strategy for video streaming in 802.11 WLANs. <i>Wireless Communications and Mobile Computing</i> , <b>2007</b> , 7, 187-203	1.9	15
76	Estimation and mode decision for spatially correlated motion sequences. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2001</b> , 11, 1098-1107	6.4	15
75	Improving low-dose blood-brain barrier permeability quantification using sparse high-dose induced prior for Patlak model. <i>Medical Image Analysis</i> , <b>2014</b> , 18, 866-80	15.4	14
74	Active Multicamera Networks: From Rendering to Surveillance. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2008</b> , 2, 597-605	7.5	13
73	Shot boundary detection using temporal statistics modeling <b>2002</b> ,		13
72	Time-Aware Opportunistic Relay for Video Streaming Over WLANs <b>2007</b> ,		12
71	GPS Refinement and Camera Orientation Estimation from a Single Image and a 2D Map <b>2014</b> ,		11
70	Semantic-Shift for Unsupervised Object Detection		11
69	Joint geometry/texture progressive coding of 3D models		11
68	Prioritized Flow Optimization With Multi-Path and Network Coding Based Routing for Scalable Multirate Multicasting. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2011</b> , 21, 259-273	6.4	10
67	Prior-based vanishing point estimation through global perspective structure matching <b>2010</b> ,		10
66	Light Field Sampling. <i>Synthesis Lectures on Image, Video, and Multimedia Processing</i> , <b>2006</b> , 2, 1-102	13	9
65	A Multi-User 3-D Virtual Environment with Interactive Collaboration and Shared Whiteboard Technologies. <i>Multimedia Tools and Applications</i> , <b>2003</b> , 20, 7-23	2.5	9
64	A visual dictionary attack on Picture Passwords <b>2013</b> ,		8
63	Compression with mosaic prediction for image-based rendering applications		8
62	A framework of changing image emotion using emotion prediction <b>2014</b> ,		7
61	Dense interpolation of 3D points based on surface and color <b>2011</b> ,		7
60	A Bayesian hierarchical detection framework for parking space detection <b>2008</b> ,		7

59	Pose-robust face recognition using geometry assisted probabilistic modeling		7
58	Adaptive joint source-channel coding using rate shaping <b>2002</b> ,		7
57	Hierarchical object groups for scene classification <b>2012</b> ,		6
56	Hand tracking using spatial gesture modeling and visual feedback for a virtual DJ system		6
55	Tensor total-variation regularized deconvolution regularized deconvolution for efficient low-dose CT perfusion. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 154-61	0.9	6
54	Putting the User in the Loop for Image-Based Modeling. <i>International Journal of Computer Vision</i> , <b>2014</b> , 108, 30-48	10.6	5
53	Efficient inference for fully-connected CRFs with stationarity <b>2012</b> ,		5
52	Opportunistic Retransmission in WLANs. <i>IEEE Transactions on Mobile Computing</i> , <b>2012</b> , 11, 1953-1969	4.6	5
51	Motion-focusing key frame extraction and video summarization for lane surveillance system <b>2009</b> ,		5
50	Unsupervised Learning of Hierarchical Semantics of Objects (hSOs) <b>2007</b> ,		5
49	Content-Free Image Retrieval using Bayesian Product Rule <b>2006</b> ,		5
48	Structures for anticausal inverses and application in multirate filter banks. <i>IEEE Transactions on Signal Processing</i> , <b>1998</b> , 46, 507-514	4.8	5
47			5
46	Camera-based clear path detection <b>2010</b> ,		4
45	CMUseum: A Location-aware Wireless Video Streaming System <b>2006</b> ,		4
44	Nonuniform sampling of image-based rendering data with the position-interval-error (PIE) function <b>2003</b> ,		4
43	Progressive image watermarking		4
42	Sparsity-based deconvolution of low-dose perfusion CT using learned dictionaries. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 272-80	0.9	4

41	Not Everybody's Special: Using Neighbors in Referring Expressions with Uncertain Attributes <b>2013</b> ,	3
40	It's Not Polite to Point: Describing People with Uncertain Attributes <b>2013</b> ,	3
39	Sparsity-based deconvolution of low-dose brain perfusion CT in subarachnoid hemorrhage patients <b>2012</b> ,	3
38	Latent Layout Analysis for Discovering Objects in Images <b>2006</b> ,	3
37	A system for active image-based rendering <b>2003</b> ,	3
36	Face recognition through mismatch driven representations of the face	3
35	Retrieval of 3D protein structures	3
34	Face Mosaicing for Pose Robust Video-Based Recognition <b>2007</b> , 662-671	3
33	Facial Trait Code. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2013</b> , 23, 648-660	6.4 2
32	Robust wireless video streaming using hybrid spatial/temporal retransmission. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2010</b> , 28, 476-487	14.2 2
31	Example-Based Depth Generation from Single Image for 3D Content <b>2008</b> ,	2
30	Real-Time Pedestrian Detection using Eigenflow <b>2007</b> ,	2
29	Security analysis for key generation systems using face images	2
28	Networked Intelligent Collaborative Environment (NetICE)	2
27	Progressive browsing of 3D models <b>1999</b> ,	2
26	Pedestrian Detection Using Global-Local Motion Patterns <b>2007</b> , 220-229	2
25	A statistical framework for image-based relighting	2
24	Tissue-specific sparse deconvolution for low-dose CT perfusion. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 114-21	0.9 2

23	Towards Understanding User Preferences from User Tagging Behavior for Personalization <b>2015,</b>	1
22	A learning-based framework for depth ordering <b>2012,</b>	1
21	Learning boundaries with color and depth <b>2013,</b>	1
20	Semi-supervised learning with kernel locality-constrained linear coding <b>2011,</b>	1
19	Improving subpixel stereo matching with segment evolution <b>2010,</b>	1
18	Landmark recognition: A unary approach <b>2010,</b>	1
17	A distributed vision-based infrastructure for multi-robot navigation <b>2010,</b>	1
16	CHARQ: Cooperative Hybrid ARQ for wireless video streaming <b>2009,</b>	1
15	Classification-Based relay selection for video streaming over wireless multihop networks <b>2009,</b>	1
14	Pictorial structures for object recognition and part labeling in drawings <b>2011,</b>	1
13	Video transmission over wireless multihop networks using opportunistic routing <b>2007,</b>	1
12	Video-Based Rendering using Feature Point Evolution <b>2006,</b>	1
11	Classification-Error Cost Minimization Strategy: DCMS <b>2007,</b>	1
10	Object Detection in Video with Graphical Models	1
9	Shaping for video with frame dependency <b>2003,</b>	1
8	Reconstructing dense light field from a multi-focus images array	1
7	Principal component analysis for facial animation	1
6	On modeling variations for face authentication	1

- 5 Probabilistic relevance feedback with binary semantic feature vectors [image retrieval applications] 1
- 4 Image-Based Rendering. *Academic Press Library in Signal Processing*, **2014**, 4, 489-533
- 3 A Unified Framework for Video Indexing, Summarization, Browsing, and Retrieval **2009**, 437-472
- 2 On Probability Density for Modeling Video Traffic. *Journal of Signal Processing Systems*, **2003**, 34, 111-124
- 1 An Approach to Interactive Co-segmentation. *SpringerBriefs in Computer Science*, **2011**, 7-33 0.4