

# Tsuhan Chen

## 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.

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	Towards Understanding User Preferences from User Tagging Behavior for Personalization <b>2015</b> ,		1
111	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
110	A framework of extracting multi-scale features using multiple convolutional neural networks <b>2015</b> ,		16
109	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
108	Image-Based Rendering. <i>Academic Press Library in Signal Processing</i> , <b>2014</b> , 4, 489-533		
107	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
106	A framework of changing image emotion using emotion prediction <b>2014</b> ,		7
105	GPS Refinement and Camera Orientation Estimation from a Single Image and a 2D Map <b>2014</b> ,		11
104	Tensor total-variation regularized deconvolution kegararlzea ueconvolution for efficient low-dose CT perfusion. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 154-61	0.9	6
103	Facial Trait Code. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2013</b> , 23, 648-660	6.4	2
102	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
101	3D-Based Reasoning with Blocks, Support, and Stability <b>2013</b> ,		61
100	A latent social approach to YouTube popularity prediction <b>2013</b> ,		16
99	Not Everybody's Special: Using Neighbors in Referring Expressions with Uncertain Attributes <b>2013</b> ,		3
98	A visual dictionary attack on Picture Passwords <b>2013</b> ,		8
97	Learning boundaries with color and depth <b>2013</b> ,		1
96	It's Not Polite to Point: Describing People with Uncertain Attributes <b>2013</b> ,		3

95	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
94	Efficient inference for fully-connected CRFs with stationarity <b>2012</b> ,		5
93	Opportunistic Retransmission in WLANs. <i>IEEE Transactions on Mobile Computing</i> , <b>2012</b> , 11, 1953-1969	4.6	5
92	A learning-based framework for depth ordering <b>2012</b> ,		1
91	Sparsity-based deconvolution of low-dose brain perfusion CT in subarachnoid hemorrhage patients <b>2012</b> ,		3
90	Hierarchical object groups for scene classification <b>2012</b> ,		6
89	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
88	Semi-supervised learning with kernel locality-constrained linear coding <b>2011</b> ,		1
87	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 <sup>6.4</sup>		10
86	Image retrieval with geometry-preserving visual phrases <b>2011</b> ,		191
85	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
84	Dense interpolation of 3D points based on surface and color <b>2011</b> ,		7
83	Pictorial structures for object recognition and part labeling in drawings <b>2011</b> ,		1
82	An Approach to Interactive Co-segmentation. <i>SpringerBriefs in Computer Science</i> , <b>2011</b> , 7-33	0.4	
81	Aesthetic quality assessment of consumer photos with faces <b>2010</b> ,		39
80	Prior-based vanishing point estimation through global perspective structure matching <b>2010</b> ,		10
79	Improving subpixel stereo matching with segment evolution <b>2010</b> ,		1
78	Landmark recognition: A unary approach <b>2010</b> ,		1

77	Camera-based clear path detection <b>2010</b> ,		4
76	A distributed vision-based infrastructure for multi-robot navigation <b>2010</b> ,		1
75	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
74	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
73	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
72	Towards computational models of kinship verification <b>2010</b> ,		143
71	A Unified Framework for Video Indexing, Summarization, Browsing, and Retrieval <b>2009</b> , 437-472		
70	CHARQ: Cooperative Hybrid ARQ for wireless video streaming <b>2009</b> ,		1
69	Classification-Based relay selection for video streaming over wireless multihop networks <b>2009</b> ,		1
68	Motion-focusing key frame extraction and video summarization for lane surveillance system <b>2009</b> ,		5
67	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
66	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
65	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
64	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
63	A Bayesian hierarchical detection framework for parking space detection <b>2008</b> ,		7
62	Example-Based Depth Generation from Single Image for 3D Content <b>2008</b> ,		2
61	Video transmission over wireless multihop networks using opportunistic routing <b>2007</b> ,		1
60	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

59	Unsupervised Image Categorization and Object Localization using Topic Models and Correspondences between Images <b>2007</b> ,	32
58	Classification-Error Cost Minimization Strategy: DCMS <b>2007</b> ,	1
57	Real-Time Pedestrian Detection using Eigenflow <b>2007</b> ,	2
56	The painful face <b>2007</b> ,	48
55	A Topic-Motion Model for Unsupervised Video Object Discovery <b>2007</b> ,	26
54	Unsupervised Learning of Hierarchical Semantics of Objects (hSOs) <b>2007</b> ,	5
53	Time-Aware Opportunistic Relay for Video Streaming Over WLANs <b>2007</b> ,	12
52	Proposed FPGA Hardware Architecture for High Frame Rate (>>100 fps) Face Detection Using Feature Cascade Classifiers <b>2007</b> ,	21
51	Profile View Lip Reading <b>2007</b> ,	38
50	Robust Parking Space Detection Considering Inter-Space Correlation <b>2007</b> ,	69
49	Face Mosaicing for Pose Robust Video-Based Recognition <b>2007</b> , 662-671	3
48	Pedestrian Detection Using Global-Local Motion Patterns <b>2007</b> , 220-229	2
47	Latent Layout Analysis for Discovering Objects in Images <b>2006</b> ,	3
46	Light Field Sampling. <i>Synthesis Lectures on Image, Video, and Multimedia Processing</i> , <b>2006</b> , 2, 1-102	13 9
45	CMUseum: A Location-aware Wireless Video Streaming System <b>2006</b> ,	4
44	Video-Based Rendering using Feature Point Evolution <b>2006</b> ,	1
43	Content-Free Image Retrieval using Bayesian Product Rule <b>2006</b> ,	5
42	A survey on image-based rendering representation, sampling and compression. <i>Signal Processing: Image Communication</i> , <b>2004</b> , 19, 1-28	2.8 102

41	A system for active image-based rendering <b>2003</b> ,		3
40	Shaping for video with frame dependency <b>2003</b> ,		1
39	Nonuniform sampling of image-based rendering data with the position-interval-error (PIE) function <b>2003</b> ,		4
38	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
37	On Probability Density for Modeling Video Traffic. <i>Journal of Signal Processing Systems</i> , <b>2003</b> , 34, 111-124		
36	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
35	Face authentication for multiple subjects using eigenflow. <i>Pattern Recognition</i> , <b>2003</b> , 36, 313-328	7.7	65
34	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
33	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
32	Adaptive joint source-channel coding using rate shaping <b>2002</b> ,		7
31	Shot boundary detection using temporal statistics modeling <b>2002</b> ,		13
30	. <i>IEEE Transactions on Multimedia</i> , <b>2002</b> , 4, 260-268	6.6	103
29	Floating-point bit-width optimization for low-power signal processing applications <b>2002</b> ,		17
28	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
27	Progressive browsing of 3D models <b>1999</b> ,		2
26	Audio-to-visual conversion for multimedia communication. <i>IEEE Transactions on Industrial Electronics</i> , <b>1998</b> , 45, 15-22	8.9	22
25	Audio-visual integration in multimodal communication. <i>Proceedings of the IEEE</i> , <b>1998</b> , 86, 837-852	14.3	100
24	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

23	. <i>IEEE Transactions on Signal Processing</i> , <b>1995</b> , 43, 1090-1102	4.8	54
22	. <i>IEEE Transactions on Signal Processing</i> , <b>1995</b> , 43, 1103-1115	4.8	39
21	Learning Patch Dependencies for Improved Pose Mismatched Face Verification		23
20	Pose-robust face recognition using geometry assisted probabilistic modeling		7
19	Semantic-Shift for Unsupervised Object Detection		11
18	Object Detection in Video with Graphical Models		1
17	Security analysis for key generation systems using face images		2
16	Reconstructing dense light field from a multi-focus images array		1
15	A GMM parts based face representation for improved verification through relevance adaptation		27
14	Face recognition through mismatch driven representations of the face		3
13	Principal component analysis for facial animation		1
12	Retrieval of 3D protein structures		3
11	Hand tracking using spatial gesture modeling and visual feedback for a virtual DJ system		6
10	On modeling variations for face authentication		1
9	Joint geometry/texture progressive coding of 3D models		11
8	Tracking of multiple faces for human-computer interfaces and virtual environments		26
7	Networked Intelligent Collaborative Environment (NetICE)		2
6	Progressive image watermarking		4

5	Compression with mosaic prediction for image-based rendering applications	8
4	Efficient feature extraction for 2D/3D objects in mesh representation	74
3		5
2	Probabilistic relevance feedback with binary semantic feature vectors [image retrieval applications]	1
1	A statistical framework for image-based relighting	2