Chia-Wen Lin

List of Publications by Year
in descending order

187 papers	5,610 citations	117625 34 h-index	102487 66 g-index
188 all docs	188 docs citations	188 times ranked	3272 citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Single-Image-Based Rain Streaks Removal via Image Decomposition. IEEE Transactions on Image Processing, 2012, 21, 1742-1755.	9.8	606
2	Deep learning on image denoising: An overview. Neural Networks, 2020, 131, 251-275.	5.9	502
3	Saliency Detection in the Compressed Domain for Adaptive Image Retargeting. IEEE Transactions on Image Processing, 2012, 21, 3888-3901.	9.8	279
4	Digital Video Transcoding. Proceedings of the IEEE, 2005, 93, 84-97.	21.3	267
5	A Video Saliency Detection Model in Compressed Domain. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 27-38.	8.3	194
6	Motion vector refinement for high-performance transcoding. IEEE Transactions on Multimedia, 1999, 1, 30-40.	7.2	187
7	Self-Learning Based Image Decomposition With Applications to Single Image Denoising. IEEE Transactions on Multimedia, 2014, 16, 83-93.	7.2	178
8	Bottom-Up Saliency Detection Model Based on Human Visual Sensitivity and Amplitude Spectrum. IEEE Transactions on Multimedia, 2012, 14, 187-198.	7.2	152
9	Coarse-to-Fine CNN for Image Super-Resolution. IEEE Transactions on Multimedia, 2021, 23, 1489-1502.	7.2	122
10	mDASH: A Markov Decision-Based Rate Adaptation Approach for Dynamic HTTP Streaming. IEEE Transactions on Multimedia, 2016, 18, 738-751.	7.2	114
11	Objective Quality Assessment for Image Retargeting Based on Structural Similarity. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 95-105.	3.6	105
12	Lightweight image super-resolution with enhanced CNN. Knowledge-Based Systems, 2020, 205, 106235.	7.1	99
13	CNN-Based Joint Clustering and Representation Learning with Feature Drift Compensation for Large-Scale Image Data. IEEE Transactions on Multimedia, 2018, 20, 421-429.	7.2	95
14	Discover Cross-Modality Nuances for Visible-Infrared Person Re-Identification. , 2021, , .		94
15	Objective Quality Assessment for Image Retargeting Based on Perceptual Geometric Distortion and Information Loss. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 377-389.	10.8	86
16	Designing and training of a dual CNN for image denoising. Knowledge-Based Systems, 2021, 226, 106949.	7.1	82
17	Context-Aware Single Image Rain Removal. , 2012, , .		81
18	Structure-Aware Positional Transformer for Visible-Infrared Person Re-Identification. IEEE Transactions on Image Processing, 2022, 31, 2352-2364.	9.8	77

#	Article	IF	Citations
19	Learning-Based Joint Super-Resolution and Deblocking for a Highly Compressed Image. IEEE Transactions on Multimedia, 2015, 17, 921-934.	7.2	72
20	Image Inpainting Guided by Coherence Priors of Semantics and Textures. , 2021, , .		68
21	Rain-Free and Residue Hand-in-Hand: A Progressive Coupled Network for Real-Time Image Deraining. IEEE Transactions on Image Processing, 2021, 30, 7404-7418.	9.8	64
22	Grayscale Enhancement Colorization Network for Visible-Infrared Person Re-Identification. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1418-1430.	8.3	63
23	SiGAN: Siamese Generative Adversarial Network for Identity-Preserving Face Hallucination. IEEE Transactions on Image Processing, 2019, 28, 6225-6236.	9.8	62
24	Guidance and Evaluation: Semantic-Aware Image Inpainting for Mixed Scenes. Lecture Notes in Computer Science, 2020, , 683-700.	1.3	62
25	Wireless video transport using conditional retransmission and low-delay interleaving. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 558-565.	8.3	57
26	Scene-Based Movie Summarization Via Role-Community Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1927-1940.	8.3	57
27	MPEG video streaming with VCR-functionality. IEEE Transactions on Circuits and Systems for Video Technology, 2001, 11, 415-425.	8.3	56
28	Asymmetric CNN for Image Superresolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3718-3730.	9.3	56
29	Single-frame-based rain removal via image decomposition. , 2011, , .		53
30	Motion Flow-Based Video Retrieval. IEEE Transactions on Multimedia, 2007, 9, 1193-1201.	7.2	48
31	Dynamic frame-skipping in video transcoding. , 0, , .		46
32	Maintaining Temporal Coherence in Video Retargeting Using Mosaic-Guided Scaling. IEEE Transactions on Image Processing, 2011, 20, 2339-2351.	9.8	44
33	Image super-resolution with an enhanced group convolutional neural network. Neural Networks, 2022, 153, 373-385.	5.9	43
34	Depth-Preserving Warping for Stereo Image Retargeting. IEEE Transactions on Image Processing, 2015, 24, 2811-2826.	9.8	42
35	HardGAN: A Haze-Aware Representation Distillation GAN for Single Image Dehazing. Lecture Notes in Computer Science, 2020, , 722-738.	1.3	42
36	Self-learning-based post-processing for image/video deblocking via sparse representation. Journal of Visual Communication and Image Representation, 2014, 25, 891-903.	2.8	41

#	ARTICLE	IF	CITATIONS
37	Motion estimation for high performance transcoding. IEEE Transactions on Consumer Electronics, 1998, 44, 649-658.	3.6	40
38	Spatiotemporal Grid Flow for Video Retargeting. IEEE Transactions on Image Processing, 2014, 23, 1615-1628.	9.8	40
39	Similarity-Preserving Linkage Hashing for Online Image Retrieval. IEEE Transactions on Image Processing, 2020, 29, 5289-5300.	9.8	39
40	Cross-Layer Packet Retry Limit Adaptation for Video Transport Over Wireless LANs. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1448-1461.	8.3	38
41	A Control-Theoretic Approach to Rate Adaption for DASH Over Multiple Content Distribution Servers. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 681-694.	8.3	36
42	Automatic Fall Incident Detection in Compressed Video for Intelligent Homecare. , 2007, , .		33
43	Identity-Aware Face Super-Resolution for Low-Resolution Face Recognition. IEEE Signal Processing Letters, 2020, 27, 645-649.	3.6	33
44	Self-learning-based rain streak removal for image/video. , 2012, , .		29
45	DoT-GNN. , 2019, , .		28
46	Virtual Contour Guided Video Object Inpainting Using Posture Mapping and Retrieval. IEEE Transactions on Multimedia, 2011, 13, 292-302.	7.2	26
47	Content-aware error-resilient transcoding using prioritized intra-refresh for video streaming. Journal of Visual Communication and Image Representation, 2005, 16, 563-588.	2.8	25
48	Video forgery detection using correlation of noise residue. , 2008, , .		25
49	Fast coarse-to-fine video retrieval using shot-level spatio-temporal statistics. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 642-648.	8.3	24
50	Depth-Aware Stereo Video Retargeting. , 2018, , .		24
51	Dynamic region of interest transcoding for multipoint video conferencing. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 982-992.	8.3	23
52	Buffer-based smooth rate adaptation for dynamic HTTP streaming. , 2013, , .		20
53	DotSCN: Group Re-Identification via Domain-Transferred Single and Couple Representation Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2739-2750.	8.3	20
54	Robust Face Sketch Synthesis via Generative Adversarial Fusion of Priors and Parametric Sigmoid. , 2018, , .		20

#	Article	IF	Citations
55	Visual acuity inspired saliency detection by using sparse features. Information Sciences, 2015, 309, 1-10.	6.9	19
56	Robust Semisupervised Graph Classifier Learning With Negative Edge Weights. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 712-726.	2.8	19
57	A Real-Time Global Inference Network for One-Stage Referring Expression Comprehension. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 134-143.	11.3	19
58	Optimal rate allocation for scalable video multicast over WiMAX. , 2008, , .		18
59	Saliency-based image retargeting in the compressed domain. , 2011, , .		18
60	Self-learning-based single image super-resolution of a highly compressed image. , 2013, , .		17
61	Unsupervised Foggy Scene Understanding via Self Spatial-Temporal Label Diffusion. IEEE Transactions on Image Processing, 2022, 31, 3525-3540.	9.8	17
62	Enhancing video error resilience by using data-embedding techniques. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 300-308.	8.3	16
63	Robust video streaming over wireless LANs using multiple description transcoding and prioritized retransmission. Journal of Visual Communication and Image Representation, 2007, 18, 191-206.	2.8	16
64	Compressed-domain Fall Incident Detection for Intelligent Homecare. Journal of Signal Processing Systems, 2007, 49, 393-408.	1.0	16
65	Prior-Based Quantization Bin Matching for Cloud Storage of JPEG Images. IEEE Transactions on Image Processing, 2018, 27, 3222-3235.	9.8	16
66	TFDASH: A Fairness, Stability, and Efficiency Aware Rate Control Approach for Multiple Clients Over DASH. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 198-211.	8.3	16
67	Uncertainty-Aware Semantic Guidance and Estimation for Image Inpainting. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 310-323.	10.8	16
68	Embedding Regularizer Learning for Multi-View Semi-Supervised Classification. IEEE Transactions on Image Processing, 2021, 30, 6997-7011.	9.8	16
69	Visible-infrared Person Re-identification via Colorization-based Siamese Generative Adversarial Network. , 2020, , .		15
70	Fast algorithms for DCT-domain video transcoding. , 0, , .		14
71	Multi-View Data Fusion Oriented Clustering via Nuclear Norm Minimization. IEEE Transactions on Image Processing, 2020, 29, 9600-9613.	9.8	14
72	Capturing Small, Fast-Moving Objects: Frame Interpolation via Recurrent Motion Enhancement. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3390-3406.	8.3	14

#	Article	IF	Citations
73	Pruning Networks With Cross-Layer Ranking & <i>k</i>-Reciprocal Nearest Filters. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9139-9148.	11.3	14
74	Low-complexity face-assisted video coding. , 2000, , .		13
75	From IC Layout to Die Photograph: A CNN-Based Data-Driven Approach. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 957-970.	2.7	13
76	When Pedestrian Detection Meets Nighttime Surveillance: A New Benchmark. , 2020, , .		13
77	Consistency-Constancy Bi-Knowledge Learning for Pedestrian Detection in Night Surveillance. , 2021, , .		13
78	Adaptive error-resilience transcoding using prioritized intra-refresh for video multicast over wireless networks. Signal Processing: Image Communication, 2007, 22, 277-297.	3.2	12
79	Human Object Inpainting Using Manifold Learning-Based Posture Sequence Estimation. IEEE Transactions on Image Processing, 2011, 20, 3124-3135.	9.8	12
80	A Novel JSCC Scheme for UEP-Based Scalable Video Transmission Over MIMO Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1002-1015.	8.3	12
81	Attention-guided image captioning with adaptive global and local feature fusion. Journal of Visual Communication and Image Representation, 2021, 78, 103138.	2.8	12
82	Hierarchical disparity estimation using spatial correlation. IEEE Transactions on Consumer Electronics, 1998, 44, 630-637.	3.6	11
83	A robust video object segmentation scheme with prestored background information. , 0, , .		11
84	Video saliency detection in the compressed domain. , 2012, , .		11
85	Graph fourier transform with negative edges for depth image coding. , 2017, , .		11
86	Dynamic rate control in multipoint video transcoding. , 0, , .		10
87	Contribution-Guided Peer Selection for Reliable Peer-to-Peer Video Streaming Over Mesh Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1388-1401.	8.3	10
88	Carrying Out CNN Channel Pruning in a White Box. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7946-7955.	11.3	10
89	Error-resilient transcoding using adaptive intra refresh for video streaming. , 0, , .		9
90	A rate-constrafned key-frame extraction scheme for channel-aware video streaming. , 0, , .		9

#	Article	IF	Citations
91	Perceptual Temporal Incoherence-Guided Stereo Video Retargeting. IEEE Transactions on Image Processing, 2020, 29, 5767-5782.	9.8	9
92	Prioritized retransmission for error protection of video streaming over WLANs. , 0, , .		8
93	H. 264 Error Resilience Coding Based on Multihypothesis Motion Compensated Prediction. , 0, , .		8
94	Temporally Coherent Superresolution of Textured Video via Dynamic Texture Synthesis. IEEE Transactions on Image Processing, 2015, 24, 919-931.	9.8	8
95	DevsNet: Deep Video Saliency Network using Short-term and Long-term Cues. Pattern Recognition, 2020, 103, 107294.	8.1	8
96	TICNet: A Target-Insight Correlation Network for Object Tracking. IEEE Transactions on Cybernetics, 2022, 52, 12150-12162.	9.5	8
97	Low-complexity dct-domain video transcoders for arbitrary-size downscaung. , 0, , .		7
98	R-D Optimized Quantization of H.264 SP-Frames for Bistream Switching under Storage Constraints. , 0, , .		7
99	Packet Scheduling for Video Streaming over Wireless with Content-Aware Packet Retry Limit. , 2006, , .		7
100	Visual Quality Enhancement in DCT-Domain Spatial Downscaling Transcoding Using Generalized DCT Decimation. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1079-1084.	8.3	7
101	Error-resilient video streaming over wireless networks using combined scalable coding and multiple-description coding. Signal Processing: Image Communication, 2007, 22, 403-420.	3.2	7
102	Efficient image/video deblocking via sparse representation. , 2012, , .		7
103	Complementing Representation Deficiency in Few-shot Image Classification: A Meta-Learning Approach. , 2021, , .		7
104	Disentangling Task-Oriented Representations for Unsupervised Domain Adaptation. IEEE Transactions on Image Processing, 2022, 31, 1012-1026.	9.8	7
105	MPEG video streaming with VCR functionality. , 0, , .		6
106	Automatic Key Posture Selection for Human Behavior Analysis. , 2005, , .		6
107	A region-based object tracking scheme using Adaboost-based feature selection. , 2008, , .		6
108	Image super-resolution via feature-based affine transform. , 2011, , .		6

#	ARTICLE	IF	CITATIONS
109	Expression-Aware Face Reconstruction via a Dual-Stream Network. IEEE Transactions on Multimedia, 2021, 23, 2998-3012.	7.2	6
110	Realtime object extraction and tracking with an active camera using image mosaics. , 0, , .		5
111	Compressed-Domain Fall Incident Detection for Intelligent Home Surveillance. , 0, , .		5
112	Adaptive Error-Resilience Transcoding and Fairness Grouping for Video Multicast Over Wireless Networks. , 2007, , .		5
113	Fast deconvolution-based image super-resolution using gradient prior. , 2011, , .		5
114	Region-based depth-preserving stereoscopic image retargeting. , 2014, , .		5
115	Fast Video Retrieval via the Statistics of Motion Within the Regions-of-Interest. Lecture Notes in Computer Science, 2005, , 381-387.	1.3	5
116	Implementatio of a realtime object-based virtual meeting system. , 2001, , .		4
117	H.264 error resilience coding based on multi-hypothesis motion-compensated prediction. Signal Processing: Image Communication, 2007, 22, 734-751.	3.2	4
118	Face hallucination using Bayesian global estimation and local basis selection. , 2010, , .		4
119	Under-exposed image enhancement using exposure compensation. , 2013, , .		4
120	Learning-based movie summarization via role-community analysis and feature fusion. , 2015, , .		4
121	Supervised-learning based face hallucination for enhancing face recognition. , 2016, , .		4
122	Group Re-Identification via Transferred Representation and Adaptive Fusion. , 2019, , .		4
123	Graph Neural Net Using Analytical Graph Filters and Topology Optimization for Image Denoising. , 2020, , .		4
124	MPEG-4 Video Streaming with Drift-Compensated Bitstream Switching. Lecture Notes in Computer Science, 2002, , 847-855.	1.3	4
125	Bottom-Up Saliency Detection Model Based on Amplitude Spectrum. Lecture Notes in Computer Science, 2011, , 370-380.	1.3	4
126	A Standard-Compliant Virtual Meeting System with Active Video Object Tracking. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.7	3

#	Article	IF	Citations
127	DCT-domain spatial transcoding using generalized DCT decimation. , 2005, , .		3
128	A New Seamless Bitstream Switching Scheme for H.264 Video Adaptation with Enhanced Coding Performance. , 2006, , .		3
129	Video-based person authetication with random passwords. , 2008, , .		3
130	Bayesian age estimation on face images. , 2009, , .		3
131	A comparative study on attention-based rate adaptation for scalable video coding. , 2009, , .		3
132	Video bsckground inpainting using dynamic texture synthesis. , 2010, , .		3
133	Contribution-based peer selection for packet protection for P2P video streaming over mesh-based networks. , 2011, , .		3
134	Unsupervised convolutional neural networks for large-scale image clustering. , 2017, , .		3
135	Perceptual Temporal Incoherence Aware Stereo Video Retargeting. , 2018, , .		3
136	Joint Pairwise Learning and Image Clustering Based on a Siamese CNN. , 2018, , .		3
137	Stereo Depth Mapping via Axis-Aligned Warping. , 2019, , .		3
138	Ensemble Learning With Manifold-Based Data Splitting for Noisy Label Correction. IEEE Transactions on Multimedia, 2022, 24, 1127-1140.	7.2	3
139	Computation reduction in cascaded DCT-domain video downscaling transcoding. , 0, , .		2
140	MPEG-4 FGS coding performance improvement using adaptive inter-layer prediction. , 0, , .		2
141	H.264 Error Resilience Coding Based on Multi-hypothesis Motion Compensated Prediction and Adaptive Intra-refresh. , 2006, , .		2
142	Unequal Error Protection for Video Streaming Over Wireless LANs using Content-Aware Packet Retry Limit. , 2006, , .		2
143	Error-resilience transcoding using content-aware intra-refresh based on profit tracing. , 0, , .		2
144	Fast Mode Decision Algorithms for Adaptive GOP Structure in the Scalable Extension of H.264/AVC. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
145	Video object inpainting using posture mapping. , 2009, , .		2
146	Video object inpainting using manifold-based action prediction. , 2010, , .		2
147	Image retargeting based on the sensitivity-tuned visual significance map. , 2011, , .		2
148	Mosaic-guided video retargeting for video adaptation. Proceedings of SPIE, 2011, , .	0.8	2
149	A packet loss estimation model and its application to reliable mesh-based P2P video streaming. , 2011, , .		2
150	Low-Overhead Content-Adaptive Spatial Scalability for Scalable Video Coding. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 1084-1095.	10.8	2
151	Video super-resolution via dynamic texture synthesis. , 2014, , .		2
152	Objective quality assessment for video retargeting based on spatio-temporal distortion analysis. , 2017, , .		2
153	Expression-Aware Face Reconstruction Via A Dual-Stream Network. , 2020, , .		2
154	Spatio-Spectral Feature Fusion for Low-Light Image Enhancement. IEEE Signal Processing Letters, 2021, 28, 2157-2161.	3.6	2
155	DotFAN: A Domain-Transferred Face Augmentation Net. IEEE Transactions on Image Processing, 2021, 30, 8759-8772.	9.8	2
156	High Quality Disparity Remapping with Two-Stage Warping. , 2021, , .		2
157	Implementation of H.323 multipoint video conference systems with personal presence control. , 0, , .		1
158	Wireless video transport using conditional retransmission and low-delay interleaving. , 0, , .		1
159	Seamless Roaming in Wireless Networks for Video Streaming. , 0, , .		1
160	Error Resilience Transcoding Using Prioritized Intra-Refresh for Video Multicast Over Wireless Networks. , 0, , .		1
161	Temporal transcoding from H.264/AVC to SVC with hierarchical bidirectional prediction. , 2012, , .		1
162	A hybrid sender/receiver-driven error protection scheme for reliable P2P scalable video streaming. , 2013, , .		1

#	Article	IF	Citations
163	A Markov decision based rate adaption approach for dynamic HTTP streaming. , 2015, , .		1
164	An unequal error protection scheme for reliable peer-to-peer scalable video streaming. Journal of Visual Communication and Image Representation, 2016, 38, 790-801.	2.8	1
165	On Peer Selection and Protection for Reliable Peer-to-Peer Video Streaming. Lecture Notes in Computer Science, 2009, , 65-76.	1.3	1
166	The study of SDH STM-1 add-drop multiplexer architecture. , 0, , .		0
167	Rate-distortion constrained quadtree segmentation for stereoscopic video coding. , 0, , .		0
168	Minimum cost implementation of full VCR functionality in MPEG video streaming. , 0, , .		0
169	Fast coarse-to-fine video retrieval via shot-level statistics. , 2005, 5960, 239.		0
170	Channel-aware robust video streaming over wireless LANs using multiple-description FGS coding. , 0, , .		0
171	Fast Video Retrieval via the Statistics of Motion. , 0, , .		0
172	Video-Based Face Authentication Using Appearance Models and HMMs. , 0, , .		0
173	Computation-Aware Intra-mode Decision for H.264 Coding and Transcoding. , 2007, , .		0
174	Video Adaptation for Heterogeneous Environments. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	0
175	Cooperative face hallucination using multiple references. , 2009, , .		0
176	A game-theoretical pricing mechanism for multiuser rate allocation for video over WiMAX. Proceedings of SPIE, 2010, , .	0.8	0
177	Introduction to the ICME2010 Special Issue. IEEE Transactions on Multimedia, 2011, 13, 417-420.	7.2	0
178	Examplar-based object posture super-resolution using manifold learning. , 2012, , .		0
179	Introduction to the Special Issue on â€œRecent advances on analysis and processing for distributed video systemsâ€, Journal of Visual Communication and Image Representation, 2013, 24, 647-648.	2.8	0
180	Low-overhead content-adaptive spatial scalability for scalable video coding. , 2013, , .		0

#	Article	IF	Citations
181	A saliency detection model based on sparse features and visual acuity. , 2013, , .		0
182	Introduction to the Issue on Interactive Media Processing for Immersive Communication. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 381-383.	10.8	0
183	Improved 3D-model texture mapping with region-of-interest weighting and iterative boundary-texture updating. , 2016, , .		0
184	Quantization bin matching for cloud storage of JPEG images. , 2016, , .		0
185	Transferring fashion to surveillance with weak labels. Neural Computing and Applications, 2020, , 1.	5.6	0
186	Shape-Preserving Stereo Object Remapping via Object-Consistent Grid Warping. IEEE Transactions on Image Processing, 2021, 30, 5889-5904.	9.8	0
187	Computation-Aware Intra-mode Decision for H.264 Coding and Transcoding. , 2007, , .		0