

# Homer H Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

169  
papers

3,458  
citations

236612

25  
h-index

197535

49  
g-index

172  
all docs

172  
docs citations

172  
times ranked

2171  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Regression Approach to Music Emotion Recognition. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 448-457.	3.8	306
2	Machine Recognition of Music Emotion. ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-30.	2.9	250
3	Programmable aperture photography. ACM Transactions on Graphics, 2008, 27, 1-10.	4.9	194
4	Analysis and Compensation of Rolling Shutter Effect. IEEE Transactions on Image Processing, 2008, 17, 1323-1330.	6.0	172
5	Error-resilient coding in JPEG-2000 and MPEG-4. IEEE Journal on Selected Areas in Communications, 2000, 18, 899-914.	9.7	108
6	Ranking-Based Emotion Recognition for Music Organization and Retrieval. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 762-774.	3.8	106
7	Perceptual Rate-Distortion Optimization Using Structural Similarity Index as Quality Metric. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1614-1624.	5.6	102
8	Music emotion classification. , 2006, , .		98
9	A survey of construction and manipulation of octrees. Computer Vision, Graphics, and Image Processing, 1988, 43, 409-431.	1.1	94
10	SSIM-Based Perceptual Rate Control for Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 682-691.	5.6	85
11	Image Enhancement for Backlight-Scaled TFT-LCD Displays. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 574-583.	5.6	82
12	Music Emotion Recognition. , 0, , .		79
13	Fast Decision of Block Size, Prediction Mode, and Intra Block for H.264 Intra Prediction. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1122-1132.	5.6	73
14	Hardware-Efficient Belief Propagation. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 525-537.	5.6	60
15	Prediction of the Distribution of Perceived Music Emotions Using Discrete Samples. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2184-2196.	3.8	54
16	ContextSeer. , 2008, , .		52
17	Light Field Analysis for Modeling Image Formation. IEEE Transactions on Image Processing, 2011, 20, 446-460.	6.0	50
18	Music emotion recognition. , 2007, , .		49

#	ARTICLE	IF	CITATIONS
19	Smooth Control of Adaptive Media Playback for Video Streaming. IEEE Transactions on Multimedia, 2009, 11, 1331-1339.	5.2	49
20	Toward Multi-modal Music Emotion Classification. Lecture Notes in Computer Science, 2008, , 70-79.	1.0	48
21	A Novel Automatic White Balance Method For Digital Still Cameras. , 0, , .		47
22	Programmable aperture photography. , 2008, , .		46
23	Music Emotion Classification: A Regression Approach. , 2007, , .		43
24	Integration of Digital Stabilizer With Video Codec for Digital Video Cameras. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 801-813.	5.6	41
25	Maximal matching of 3-D points for multiple-object motion estimation. Pattern Recognition, 1988, 21, 75-90.	5.1	39
26	Emotional Accompaniment Generation System Based on Harmonic Progression. IEEE Transactions on Multimedia, 2013, 15, 1469-1479.	5.2	35
27	Learning-Based Prediction of Visual Attention for Video Signals. IEEE Transactions on Image Processing, 2011, 20, 3028-3038.	6.0	33
28	The AMG1608 dataset for music emotion recognition. , 2015, , .		32
29	Design and Evaluation of a P2P IPTV System for Heterogeneous Networks. IEEE Transactions on Multimedia, 2007, 9, 1568-1579.	5.2	31
30	Multipitch Estimation of Piano Music by Exemplar-Based Sparse Representation. IEEE Transactions on Multimedia, 2012, 14, 608-618.	5.2	31
31	Reciprocal Focus Profile. IEEE Transactions on Image Processing, 2012, 21, 459-468.	6.0	31
32	Linear regression-based adaptation of music emotion recognition models for personalization. , 2014, , .		28
33	Transform-Domain Intra Prediction for H.264. , 0, , .		26
34	Mr. Emo. , 2008, , .		26
35	Exploiting online music tags for music emotion classification. ACM Transactions on Multimedia Computing, Communications and Applications, 2011, 7S, 1-16.	3.0	25
36	Enhancement of Backlight-Scaled Images. IEEE Transactions on Image Processing, 2013, 22, 4587-4597.	6.0	25

#	ARTICLE	IF	CITATIONS
37	Stochastic Color Interpolation for Digital Cameras. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 964-973.	5.6	24
38	Video Object Extraction via MRF-Based Contour Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 149-155.	5.6	23
39	Improving video coding quality by perceptual rate-distortion optimization. , 2010, , .		22
40	A Three-Stage Approach to Shadow Field Estimation From Partial Boundary Information. IEEE Transactions on Image Processing, 2010, 19, 2749-2760.	6.0	21
41	Compression of MPEG-4 facial animation parameters for transmission of talking heads. IEEE Transactions on Circuits and Systems for Video Technology, 1999, 9, 264-276.	5.6	20
42	Rolling shutter distortion correction. , 2005, , .		20
43	Online Reranking via Ordinal Informative Concepts for Context Fusion in Concept Detection and Video Search. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1880-1890.	5.6	18
44	Extracting Blood Vessels From Full-Field OCT Data of Human Skin by Short-Time RPCA. IEEE Transactions on Medical Imaging, 2018, 37, 1899-1909.	5.4	18
45	Perceptual-based coding mode decision. , 2010, , .		17
46	Detecting and Classifying Emotion in Popular Music. , 0, , .		17
47	A Collaborative Transcoding Strategy for Live Broadcasting Over Peer-to-Peer IPTV Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 220-224.	5.6	16
48	Image Stitching for Dual Fisheye Cameras. , 2018, , .		16
49	Robust measure of image focus in the wavelet domain. , 2005, , .		15
50	Automatic chord recognition for music classification and retrieval. , 2008, , .		15
51	Focus Profile Modeling. IEEE Transactions on Image Processing, 2016, 25, 818-828.	6.0	15
52	Identification of Sex and Age from Macular Optical Coherence Tomography and Feature Analysis Using Deep Learning. American Journal of Ophthalmology, 2022, 235, 221-228.	1.7	15
53	Music emotion ranking. , 2009, , .		14
54	Automatic highlights extraction for drama video using music emotion and human face features. Neurocomputing, 2013, 119, 111-117.	3.5	14

#	ARTICLE	IF	CITATIONS
55	Exploiting Perceptual Anchoring for Color Image Enhancement. IEEE Transactions on Multimedia, 2016, 18, 300-310.	5.2	14
56	Personalized music emotion recognition. , 2009, , .		14
57	Directionally Weighted Color Interpolation for Digital Cameras. , 0, , .		13
58	Efficient and Accurate Stitching for 360° Dual-Fisheye Images and Videos. IEEE Transactions on Image Processing, 2022, 31, 251-262.	6.0	13
59	Deep face recognition for dim images. Pattern Recognition, 2022, 126, 108580.	5.1	13
60	Light Field Acquisition using Programmable Aperture Camera. , 2007, , .		12
61	Single Image Realism Assessment and Recoloring by Color Compatibility. IEEE Transactions on Multimedia, 2012, 14, 760-769.	5.2	12
62	H.264/AVC-based multiple description video coding using dynamic slice groups. Signal Processing: Image Communication, 2008, 23, 677-691.	1.8	11
63	Exploiting genre for music emotion classification. , 2009, , .		11
64	A perceptual-based approach to bit allocation for H.264 encoder. Proceedings of SPIE, 2010, , .	0.8	11
65	Dermal epidermal junction detection for full-field optical coherence tomography data of human skin by deep learning. Computerized Medical Imaging and Graphics, 2021, 87, 101833.	3.5	11
66	Efficient Quantization Based on Rate-Distortion Optimization for Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1099-1106.	5.6	10
67	Deep Face Rectification for 360° Dual-Fisheye Cameras. IEEE Transactions on Image Processing, 2021, 30, 264-276.	6.0	10
68	Detecting mouse squamous cell carcinoma from submicron full-field optical coherence tomography images by deep learning. Journal of Biophotonics, 2021, 14, e202000271.	1.1	10
69	Smooth Playout Control for Video Streaming over Error-Prone Channels. , 2006, , .		9
70	Acceleration of rate-distortion optimized quantization for H.264/AVC. , 2013, , .		9
71	Component Tying for Mixture Model Adaptation in Personalization of Music Emotion Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1409-1420.	4.0	9
72	Light Field Synthesis by Training Deep Network in the Refocused Image Domain. IEEE Transactions on Image Processing, 2020, 29, 6630-6640.	6.0	9

#	ARTICLE	IF	CITATIONS
73	Fast Multi-Frame Motion Estimation for H.264 and Its Applications to Complexity-Aware Streaming. , 0, ,		8
74	Bandwidth Estimation of in-Home Power Line Networks. , 2007, , .		8
75	Frame-Layer Constant-Quality Rate Control of Regions of Interest for Multiple Encoders With Single Video Source. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 857-867.	5.6	8
76	Analysis of belief propagation for hardware realization. , 2008, , .		8
77	Fast belief propagation process element for high-quality stereo estimation. , 2009, , .		8
78	Extraction and alignment evaluation of motion beats for street dance. , 2013, , .		8
79	Music recommendation based on artist novelty and similarity. , 2014, , .		8
80	Multimodal structure segmentation and analysis of music using audio and textual information. , 2009, , .		7
81	Automatic highlights extraction for drama video using music emotion and human face features. , 2011, , .		7
82	Quality enhancement of procam system by radiometric compensation. , 2012, , .		7
83	A simulation model for continuous autofocus design. IEEE Transactions on Consumer Electronics, 2013, 59, 731-737.	3.0	7
84	Singing voice timbre classification of Chinese popular music. , 2013, , .		7
85	Seamless Stitching Dual Fisheye Images For 360° Free View. , 2019, , .		7
86	Fast Multi-Frame Motion Estimation and Mode Decision for H.264 Encoders. , 0, , .		6
87	Multiple description coding with spatial-temporal hybrid interpolation for video streaming in peer-to-peer networks. Journal of Zhejiang University: Science A, 2006, 7, 894-899.	1.3	6
88	H.264/AVC-Based Multiple Description Coding Scheme. , 2007, , .		6
89	JND-based enhancedment of perceptibility for dim images. , 2008, , .		6
90	Local Dimming of Liquid Crystal Display Using Visual Attention Prediction Model. , 2011, , .		6

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91	360° Video Stitching for Dual Fisheye Cameras. , 2019, , .		6
92	Rounding Mismatch Between Spatial-Domain and Transform-Domain Video Codecs. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 1286-1293.	5.6	5
93	Image Quality Enhancement for Low Backlight TFT-LCD Displays. , 2007, , .		5
94	Quality Improvement of Video Codec by Rate-Distortion Optimized Quantization. , 2011, , .		5
95	Directing visual attention by subliminal cues. , 2012, , .		5
96	Compensation of spectral mismatch to enhance WRGB demosaicking. , 2015, , .		5
97	Tag Propagation and Cost-Sensitive Learning for Music Auto-Tagging. IEEE Transactions on Multimedia, 2021, 23, 1605-1616.	5.2	5
98	Classification of squamous cell carcinoma from FF-OCT images: Data selection and progressive model construction. Computerized Medical Imaging and Graphics, 2021, 93, 101992.	3.5	5
99	Efficient Face Detection in the Fisheye Image Domain. IEEE Transactions on Image Processing, 2021, 30, 5641-5651.	6.0	5
100	Octrees: Construction, Representation, And Manipulation. , 1985, 0579, 448.		4
101	Integration of Image Stabilizer with Video Codec for Digital Video Cameras. , 0, , .		4
102	Depth Detection of Light Field. , 2007, , .		4
103	Efficient MB and prediction mode decisions for intra prediction of H.264 High Profile. , 2009, , .		4
104	Effective autofocus decision using reciprocal focus profile. , 2011, , .		4
105	Radiometric compensation for procam system based on anchoring theory. , 2013, , .		4
106	Anti-aliasing for light field rendering. , 2014, , .		4
107	Method and experiments of subliminal cueing for real-world images. Multimedia Tools and Applications, 2015, 74, 10111-10135.	2.6	4
108	Generation of Affective Accompaniment in Accordance With Emotion Flow. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 2277-2287.	4.0	4

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109	Improving the Reliability of Phase Detection Autofocus. IS&T International Symposium on Electronic Imaging, 2018, 30, 241-1-241-5.	0.3	4
110	DSP Implementation of Digital Image Stabilizer. , 0, , .		3
111	A Complexity-Aware Video Adaptation Mechanism for Live Streaming Systems. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.0	3
112	A Scalable Peer-to-Peer IPTV System. , 2007, , .		3
113	Interactive content presentation based on expressed emotion and physiological feedback. , 2008, , .		3
114	A visibility model for quality assessment of dimmed images. , 2012, , .		3
115	Compensating specular highlights for non-Lambertian projection surfaces. Journal of Electronic Imaging, 2013, 22, 011004.	0.5	3
116	Blood vessel extraction from OCT data by short-time RPCA. , 2016, , .		3
117	Blocking harmful blue light while preserving image color appearance. ACM Transactions on Graphics, 2016, 35, 1-10.	4.9	3
118	Analysis of Disparity Error for Stereo Autofocus. IEEE Transactions on Image Processing, 2018, 27, 1575-1585.	6.0	3
119	Cross-Cultural Music Emotion Recognition by Adversarial Discriminative Domain Adaptation. , 2018, , .		3
120	Generating High-Resolution Image and Depth Map Using a Camera Array With Mixed Focal Lengths. IEEE Transactions on Computational Imaging, 2019, 5, 68-81.	2.6	3
121	Robust Light Field Synthesis From Stereo Images With Left-Right Geometric Consistency. , 2021, , .		3
122	Quality assessment of images illuminated by dim LCD backlight. Proceedings of SPIE, 2012, , .	0.8	3
123	Determining motion and depth from binocular orthographic views. CVGIP Image Understanding, 1991, 54, 47-55.	1.3	2
124	Fast H.264 selective intra mode decision for inter-frame coding. , 2009, , .		2
125	SVC or MDC? That's the question. , 2011, , .		2
126	Automatic transcription of piano music by sparse representation of magnitude spectra. , 2011, , .		2



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127	Smooth control of continuous autofocus. , 2012, , .		2
128	Color enhancement based on the anchoring theory. , 2013, , .		2
129	Analysis of the effect of calibration error on light field super-resolution rendering. , 2014, , .		2
130	Gaussian noise approximation for disparity-based autofocus. , 2016, , .		2
131	Playlist-Based Tag Propagation for Improving Music Auto-Tagging. , 2018, , .		2
132	Enhancement and Speedup of Photometric Compensation for Projectors by Reducing Inter-Pixel Coupling and Calibration Patterns. IEEE Transactions on Image Processing, 2021, 30, 418-430.	6.0	2
133	A Practical Solution to Transform-Domain Rounding. , 0, , .		1
134	Fast H.264 Mode Decision Using Previously Coded Information. , 2008, , .		1
135	Research on light field camera and music emotion recognition. , 2009, , .		1
136	Perception-based high dynamic range compression in gradient domain. , 2009, , .		1
137	Efficient construction of saliency map. , 2009, , .		1
138	Color enhancement for portable LCD displays in low-power mode. , 2011, , .		1
139	Adopting Perceptual Quality Metrics in Video Encoders: Progress and Critiques. , 2012, , .		1
140	A simulation tool for digital autofocus design. , 2013, , .		1
141	Introduction to the Issue on Perception Inspired Video Processing. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 355-357.	7.3	1
142	Perceptually lossless video re-encoding for cloud transcoding. , 2014, , .		1
143	Vector representation of emotion flow for popular music. , 2015, , .		1
144	Emotion-flow guided music accompaniment generation. , 2016, , .		1

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145	Occlusion-and-Edge-Aware Depth Estimation From Stereo Images for Synthetic Refocusing. , 2018, , .		1
146	AF-Net: A Convolutional Neural Network Approach to Phase Detection Autofocus. IEEE Transactions on Image Processing, 2020, 29, 6386-6395.	6.0	1
147	&lt;title&gt;Septree Representations Of Moving Objects Using Hexagonal Cylindrical Decomposition&lt;/title&gt;. Proceedings of SPIE, 1984, 0449, 103.	0.8	0
148	Generating Cylindrical Representation Of Solid Objects From Surface Representation. Proceedings of SPIE, 1985, , .	0.8	0
149	Constant-Quality Rate Control Algorithm for Multiple Encoders with Single Video Source. , 2006, , .		0
150	Guest editorsâ€™ foreword. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2006, 29, 1-2.	0.6	0
151	Available bandwidth characteristics and estimation of in-home power line networks. , 2008, , .		0
152	Clustering for music search results. , 2009, , .		0
153	Realism assessment of color compatibility using a single image. , 2009, , .		0
154	Shadow removal from natural images. , 2010, , .		0
155	Recent progress on perceptual video coding. , 2011, , .		0
156	Enhancement of LCD Images Illuminated with Dim Backlight. , 2011, , .		0
157	Introduction to the ICME2010 Special Issue. IEEE Transactions on Multimedia, 2011, 13, 417-420.	5.2	0
158	Fusion of visual attention cues by machine learning. , 2011, , .		0
159	Automatic accompaniment generation to evoke specific emotion. , 2013, , .		0
160	Radiometric compensation for ubiquitous projection. , 2013, , .		0
161	PIVP 2014. , 2014, , .		0
162	Transformation of focus profiles for digital autofocus. , 2015, , .		0

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163	Overcoming the blooming effect on autofocus by fringe detection. , 2015, , .		0
164	Guest Editorial: Visual Information Processing and Perception. Multimedia Tools and Applications, 2015, 74, 10053-10056.	2.6	0
165	Preserving image color appearance on non-white projection surfaces. , 2015, , .		0
166	Dehazing With A See-Through Near-Eye Display. , 2018, , .		0
167	Deep Feature Learning for Contour Segmentation of Aorta's Intima by Using Sub-Micron-Resolution OCT. , 2019, , .		0
168	Differentiation of gender from macular optical coherence tomography using deep learning. , 2020, , .		0
169	Speed Up Light Field Synthesis from Stereo Images. , 2021, , .		0