

# 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	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
2	Efficient and Accurate Stitching for 360° Dual-Fisheye Images and Videos. IEEE Transactions on Image Processing, 2022, 31, 251-262.	6.0	13
3	Deep face recognition for dim images. Pattern Recognition, 2022, 126, 108580.	5.1	13
4	Tag Propagation and Cost-Sensitive Learning for Music Auto-Tagging. IEEE Transactions on Multimedia, 2021, 23, 1605-1616.	5.2	5
5	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
6	Deep Face Rectification for 360° Dual-Fisheye Cameras. IEEE Transactions on Image Processing, 2021, 30, 264-276.	6.0	10
7	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
8	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
9	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
10	Robust Light Field Synthesis From Stereo Images With Left-Right Geometric Consistency. , 2021, , .		3
11	Efficient Face Detection in the Fisheye Image Domain. IEEE Transactions on Image Processing, 2021, 30, 5641-5651.	6.0	5
12	Speed Up Light Field Synthesis from Stereo Images. , 2021, , .		0
13	AF-Net: A Convolutional Neural Network Approach to Phase Detection Autofocus. IEEE Transactions on Image Processing, 2020, 29, 6386-6395.	6.0	1
14	Light Field Synthesis by Training Deep Network in the Refocused Image Domain. IEEE Transactions on Image Processing, 2020, 29, 6630-6640.	6.0	9
15	Differentiation of gender from macular optical coherence tomography using deep learning. , 2020, , .		0
16	360° Video Stitching for Dual Fisheye Cameras. , 2019, , .		6
17	Seamless Stitching Dual Fisheye Images For 360° Free View. , 2019, , .		7
18	Deep Feature Learning for Contour Segmentation of Aorta's Intima by Using Sub-Micron-Resolution OCT. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	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
20	Analysis of Disparity Error for Stereo Autofocus. IEEE Transactions on Image Processing, 2018, 27, 1575-1585.	6.0	3
21	Improving the Reliability of Phase Detection Autofocus. IS&T International Symposium on Electronic Imaging, 2018, 30, 241-1-241-5.	0.3	4
22	Cross-Cultural Music Emotion Recognition by Adversarial Discriminative Domain Adaptation. , 2018, , .		3
23	Playlist-Based Tag Propagation for Improving Music Auto-Tagging. , 2018, , .		2
24	Occlusion-and-Edge-Aware Depth Estimation From Stereo Images for Synthetic Refocusing. , 2018, , .		1
25	Dehazing With A See-Through Near-Eye Display. , 2018, , .		0
26	Image Stitching for Dual Fisheye Cameras. , 2018, , .		16
27	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
28	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
29	Emotion-flow guided music accompaniment generation. , 2016, , .		1
30	Gaussian noise approximation for disparity-based autofocus. , 2016, , .		2
31	Blood vessel extraction from OCT data by short-time RPCA. , 2016, , .		3
32	Blocking harmful blue light while preserving image color appearance. ACM Transactions on Graphics, 2016, 35, 1-10.	4.9	3
33	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
34	Exploiting Perceptual Anchoring for Color Image Enhancement. IEEE Transactions on Multimedia, 2016, 18, 300-310.	5.2	14
35	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
36	Focus Profile Modeling. IEEE Transactions on Image Processing, 2016, 25, 818-828.	6.0	15

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37	The AMG1608 dataset for music emotion recognition. , 2015, , .		32
38	Method and experiments of subliminal cueing for real-world images. Multimedia Tools and Applications, 2015, 74, 10111-10135.	2.6	4
39	Vector representation of emotion flow for popular music. , 2015, , .		1
40	Compensation of spectral mismatch to enhance WRGB demosaicking. , 2015, , .		5
41	Transformation of focus profiles for digital autofocus. , 2015, , .		0
42	Overcoming the blooming effect on autofocus by fringe detection. , 2015, , .		0
43	Guest Editorial: Visual Information Processing and Perception. Multimedia Tools and Applications, 2015, 74, 10053-10056.	2.6	0
44	Preserving image color appearance on non-white projection surfaces. , 2015, , .		0
45	Analysis of the effect of calibration error on light field super-resolution rendering. , 2014, , .		2
46	Anti-aliasing for light field rendering. , 2014, , .		4
47	Music recommendation based on artist novelty and similarity. , 2014, , .		8
48	Introduction to the Issue on Perception Inspired Video Processing. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 355-357.	7.3	1
49	PIVP 2014. , 2014, , .		0
50	Linear regression-based adaptation of music emotion recognition models for personalization. , 2014, , .		28
51	Perceptually lossless video re-encoding for cloud transcoding. , 2014, , .		1
52	Enhancement of Backlight-Scaled Images. IEEE Transactions on Image Processing, 2013, 22, 4587-4597.	6.0	25
53	A simulation model for continuous autofocus design. IEEE Transactions on Consumer Electronics, 2013, 59, 731-737.	3.0	7
54	Automatic accompaniment generation to evoke specific emotion. , 2013, , .		0

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55	Emotional Accompaniment Generation System Based on Harmonic Progression. IEEE Transactions on Multimedia, 2013, 15, 1469-1479.	5.2	35
56	Singing voice timbre classification of Chinese popular music. , 2013, , .		7
57	A simulation tool for digital autofocus design. , 2013, , .		1
58	Acceleration of rate-distortion optimized quantization for H.264/AVC. , 2013, , .		9
59	Automatic highlights extraction for drama video using music emotion and human face features. Neurocomputing, 2013, 119, 111-117.	3.5	14
60	Compensating specular highlights for non-Lambertian projection surfaces. Journal of Electronic Imaging, 2013, 22, 011004.	0.5	3
61	Extraction and alignment evaluation of motion beats for street dance. , 2013, , .		8
62	Radiometric compensation for procam system based on anchoring theory. , 2013, , .		4
63	Color enhancement based on the anchoring theory. , 2013, , .		2
64	Radiometric compensation for ubiquitous projection. , 2013, , .		0
65	Quality enhancement of procam system by radiometric compensation. , 2012, , .		7
66	A visibility model for quality assessment of dimmed images. , 2012, , .		3
67	Directing visual attention by subliminal cues. , 2012, , .		5
68	Multipitch Estimation of Piano Music by Exemplar-Based Sparse Representation. IEEE Transactions on Multimedia, 2012, 14, 608-618.	5.2	31
69	Adopting Perceptual Quality Metrics in Video Encoders: Progress and Critiques. , 2012, , .		1
70	Smooth control of continuous autofocus. , 2012, , .		2
71	Machine Recognition of Music Emotion. ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-30.	2.9	250
72	Single Image Realism Assessment and Recoloring by Color Compatibility. IEEE Transactions on Multimedia, 2012, 14, 760-769.	5.2	12

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73	Reciprocal Focus Profile. IEEE Transactions on Image Processing, 2012, 21, 459-468.	6.0	31
74	Quality assessment of images illuminated by dim LCD backlight. Proceedings of SPIE, 2012, , .	0.8	3
75	Learning-Based Prediction of Visual Attention for Video Signals. IEEE Transactions on Image Processing, 2011, 20, 3028-3038.	6.0	33
76	Recent progress on perceptual video coding. , 2011, , .		0
77	SSIM-Based Perceptual Rate Control for Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 682-691.	5.6	85
78	SVC or MDC? That's the question. , 2011, , .		2
79	Enhancement of LCD Images Illuminated with Dim Backlight. , 2011, , .		0
80	Quality Improvement of Video Codec by Rate-Distortion Optimized Quantization. , 2011, , .		5
81	Introduction to the ICME2010 Special Issue. IEEE Transactions on Multimedia, 2011, 13, 417-420.	5.2	0
82	Automatic transcription of piano music by sparse representation of magnitude spectra. , 2011, , .		2
83	Hardware-Efficient Belief Propagation. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 525-537.	5.6	60
84	Color enhancement for portable LCD displays in low-power mode. , 2011, , .		1
85	Ranking-Based Emotion Recognition for Music Organization and Retrieval. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 762-774.	3.8	106
86	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
87	Effective autofocus decision using reciprocal focus profile. , 2011, , .		4
88	Local Dimming of Liquid Crystal Display Using Visual Attention Prediction Model. , 2011, , .		6
89	Light Field Analysis for Modeling Image Formation. IEEE Transactions on Image Processing, 2011, 20, 446-460.	6.0	50
90	Fusion of visual attention cues by machine learning. , 2011, , .		0

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91	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
92	Automatic highlights extraction for drama video using music emotion and human face features. , 2011, , .		7
93	Exploiting online music tags for music emotion classification. ACM Transactions on Multimedia Computing, Communications and Applications, 2011, 7S, 1-16.	3.0	25
94	A perceptual-based approach to bit allocation for H.264 encoder. Proceedings of SPIE, 2010, , .	0.8	11
95	Perceptual-based coding mode decision. , 2010, , .		17
96	Shadow removal from natural images. , 2010, , .		0
97	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
98	A Three-Stage Approach to Shadow Field Estimation From Partial Boundary Information. IEEE Transactions on Image Processing, 2010, 19, 2749-2760.	6.0	21
99	Video Object Extraction via MRF-Based Contour Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 149-155.	5.6	23
100	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
101	Improving video coding quality by perceptual rate-distortion optimization. , 2010, , .		22
102	Research on light field camera and music emotion recognition. , 2009, , .		1
103	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
104	Music emotion ranking. , 2009, , .		14
105	Clustering for music search results. , 2009, , .		0
106	Realism assessment of color compatibility using a single image. , 2009, , .		0
107	Exploiting genre for music emotion classification. , 2009, , .		11
108	Perception-based high dynamic range compression in gradient domain. , 2009, , .		1

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109	Fast belief propagation process element for high-quality stereo estimation. , 2009, , .		8
110	Multimodal structure segmentation and analysis of music using audio and textual information. , 2009, , .		7
111	Efficient construction of saliency map. , 2009, , .		1
112	Image Enhancement for Backlight-Scaled TFT-LCD Displays. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 574-583.	5.6	82
113	Fast H.264 selective intra mode decision for inter-frame coding. , 2009, , .		2
114	Smooth Control of Adaptive Media Playback for Video Streaming. IEEE Transactions on Multimedia, 2009, 11, 1331-1339.	5.2	49
115	Efficient MB and prediction mode decisions for intra prediction of H.264 High Profile. , 2009, , .		4
116	Personalized music emotion recognition. , 2009, , .		14
117	H.264/AVC-based multiple description video coding using dynamic slice groups. Signal Processing: Image Communication, 2008, 23, 677-691.	1.8	11
118	A Regression Approach to Music Emotion Recognition. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 448-457.	3.8	306
119	Toward Multi-modal Music Emotion Classification. Lecture Notes in Computer Science, 2008, , 70-79.	1.0	48
120	Fast H.264 Mode Decision Using Previously Coded Information. , 2008, , .		1
121	Analysis and Compensation of Rolling Shutter Effect. IEEE Transactions on Image Processing, 2008, 17, 1323-1330.	6.0	172
122	Available bandwidth characteristics and estimation of in-home power line networks. , 2008, , .		0
123	Programmable aperture photography. ACM Transactions on Graphics, 2008, 27, 1-10.	4.9	194
124	Mr. Emo. , 2008, , .		26
125	Programmable aperture photography. , 2008, , .		46
126	ContextSeer. , 2008, , .		52



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127	Interactive content presentation based on expressed emotion and physiological feedback. , 2008, , .		3
128	Automatic chord recognition for music classification and retrieval. , 2008, , .		15
129	Analysis of belief propagation for hardware realization. , 2008, , .		8
130	JND-based enhancement of perceptibility for dim images. , 2008, , .		6
131	Music emotion recognition. , 2007, , .		49
132	Depth Detection of Light Field. , 2007, , .		4
133	Image Quality Enhancement for Low Backlight TFT-LCD Displays. , 2007, , .		5
134	Bandwidth Estimation of in-Home Power Line Networks. , 2007, , .		8
135	Light Field Acquisition using Programmable Aperture Camera. , 2007, , .		12
136	A Complexity-Aware Video Adaptation Mechanism for Live Streaming Systems. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.0	3
137	H.264/AVC-Based Multiple Description Coding Scheme. , 2007, , .		6
138	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
139	Stochastic Color Interpolation for Digital Cameras. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 964-973.	5.6	24
140	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
141	Music Emotion Classification: A Regression Approach. , 2007, , .		43
142	Design and Evaluation of a P2P IPTV System for Heterogeneous Networks. IEEE Transactions on Multimedia, 2007, 9, 1568-1579.	5.2	31
143	A Scalable Peer-to-Peer IPTV System. , 2007, , .		3
144	Constant-Quality Rate Control Algorithm for Multiple Encoders with Single Video Source. , 2006, , .		0

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145	Smooth Payout Control for Video Streaming over Error-Prone Channels. , 2006, , .		9
146	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
147	Music emotion classification. , 2006, , .		98
148	Guest editorsâ€™™ foreword. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2006, 29, 1-2.	0.6	0
149	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
150	Robust measure of image focus in the wavelet domain. , 2005, , .		15
151	Rolling shutter distortion correction. , 2005, , .		20
152	Error-resilient coding in JPEG-2000 and MPEG-4. IEEE Journal on Selected Areas in Communications, 2000, 18, 899-914.	9.7	108
153	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
154	Determining motion and depth from binocular orthographic views. CVGIP Image Understanding, 1991, 54, 47-55.	1.3	2
155	Maximal matching of 3-D points for multiple-object motion estimation. Pattern Recognition, 1988, 21, 75-90.	5.1	39
156	A survey of construction and manipulation of octrees. Computer Vision, Graphics, and Image Processing, 1988, 43, 409-431.	1.1	94
157	Generating Cylindrical Representation Of Solid Objects From Surface Representation. Proceedings of SPIE, 1985, , .	0.8	0
158	Octrees: Construction, Representation, And Manipulation. , 1985, 0579, 448.		4
159	&lt;title&gt;Septree Representations Of Moving Objects Using Hexagonal Cylindrical Decomposition&lt;/title&gt;. Proceedings of SPIE, 1984, 0449, 103.	0.8	0
160	A Practical Solution to Transform-Domain Rounding. , 0, , .		1
161	Directionally Weighted Color Interpolation for Digital Cameras. , 0, , .		13
162	A Novel Automatic White Balance Method For Digital Still Cameras. , 0, , .		47

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163	Fast Multi-Frame Motion Estimation for H.264 and Its Applications to Complexity-Aware Streaming. , 0, , .		8
164	Transform-Domain Intra Prediction for H.264. , 0, , .		26
165	DSP Implementation of Digital Image Stabilizer. , 0, , .		3
166	Fast Multi-Frame Motion Estimation and Mode Decision for H.264 Encoders. , 0, , .		6
167	Integration of Image Stabilizer with Video Codec for Digital Video Cameras. , 0, , .		4
168	Music Emotion Recognition. , 0, , .		79
169	Detecting and Classifying Emotion in Popular Music. , 0, , .		17