Javier Vazquez-Corral

List of Publications by Year
in descending order

47 papers	636 citations	758635 12 h-index	752256 20 g-index
47 all docs	47 docs citations	47 times ranked	521 citing authors

#	Article	IF	Citations
1	On the synthesis of visual illusions using deep generative models. Journal of Vision, 2022, 22, 2.	0.1	2
2	Vision Models for Wide Color Gamut Imaging in Cinema. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1777-1790.	9.7	12
3	A Study of Objective Quality Metrics for HLG-Based HDR/WCG Image Coding. Smpte Motion Imaging Journal, 2021, 130, 53-65.	0.2	1
4	Matching visual induction effects on screens of different size. Journal of Vision, 2021, 21, 10.	0.1	0
5	A fast image dehazing method that does not introduce color artifacts. Journal of Real-Time Image Processing, 2020, 17, 607-622.	2.2	20
6	Evidence for the intrinsically nonlinear nature of receptive fields in vision. Scientific Reports, 2020, 10, 16277.	1.6	14
7	Color illusions also deceive CNNs for low-level vision tasks: Analysis and implications. Vision Research, 2020, 176, 156-174.	0.7	20
8	Color Stabilization for Multi-Camera Light-Field Imaging. , 2020, , .		0
9	Color Matching Images With Unknown Non-Linear Encodings. IEEE Transactions on Image Processing, 2020, 29, 4435-4444.	6.0	9
10	Physical-based optimization for non-physical image dehazing methods. Optics Express, 2020, 28, 9327.	1.7	11
11	Issues with Common Assumptions about the Camera Pipeline and Their Impact in HDR Imaging from Multiple Exposures. SIAM Journal on Imaging Sciences, 2019, 12, 1627-1642.	1.3	3
12	Convolutional Neural Networks Can Be Deceived by Visual Illusions. , 2019, , .		13
13	The Potential of Light Fields in Media Productions. , 2019, , .		4
14	Using the Monge-Kantorovitch Transform in Chromagenic Color Constancy for Pathophysiology. Lecture Notes in Computer Science, 2019, , 121-133.	1.0	0
15	Physically Plausible Dehazing for Non-physical Dehazing Algorithms. Lecture Notes in Computer Science, 2019, , 233-244.	1.0	0
16	Coupled Retinex. Color and Imaging Conference, 2019, 2019, 7-12.	0.1	1
17	Angular-Based Preprocessing for Image Denoising. IEEE Signal Processing Letters, 2018, 25, 219-223.	2.1	8
18	NTIRE 2018 Challenge on Image Dehazing: Methods and Results. , 2018, , .		80

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19	On the Duality Between Retinex and Image Dehazing. , 2018, , .		80
20	Weakly Supervised Fog Detection. , 2018, , .		1
21	Spatial gamut mapping among non-inclusive gamuts. Journal of Visual Communication and Image Representation, 2018, 54, 204-212.	1.7	5
22	Variational Methods for Gamut Mapping in Cinema and Television. Mathematics and Visualization, 2018, , 67-100.	0.4	0
23	Perceptually-based restoration of backlit images. Color and Imaging Conference, 2018, 26, 32-37.	0.1	2
24	Gamut Extension for Cinema. IEEE Transactions on Image Processing, 2017, 26, 1595-1606.	6.0	15
25	Color-matching Shots from Different Cameras Having Unknown Gamma or Logarithmic Encoding Curves. , 2017, , .		2
26	Automatic, Fast and Perceptually Accurate Gamut Mapping Based on Vision Science Models. , 2017, , .		1
27	Enhancing spatio-chromatic representation with more-than-three color coding for image description. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 827.	0.8	2
28	Image processing applications through a variational perceptually-based color correction related to Retinex. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-6.	0.3	2
29	Log-encoding estimation for color stabilization of cinematic footage. , 2016, , .		5
30	Perceptually-based Gamut Extension Algorithm for Emerging Wide Color Gamut Display and Projection Technologies. , 2016, , .		2
31	Fusion-based Variational Image Dehazing. IEEE Signal Processing Letters, 2016, , 1-1.	2.1	45
32	A tone mapping operator based on neural and psychophysical models of visual perception. Proceedings of SPIE, 2015, , .	0.8	5
33	Gamut extension for cinema: psychophysical evaluation of the state of the art and a new algorithm. , 2015, , .		2
34	Simultaneous Blind Gamma Estimation. IEEE Signal Processing Letters, 2015, 22, 1316-1320.	2.1	11
35	Enhanced Variational Image Dehazing. SIAM Journal on Imaging Sciences, 2015, 8, 1519-1546.	1.3	84
36	A Variational Framework for Single Image Dehazing. Lecture Notes in Computer Science, 2015, , 259-270.	1.0	6

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37	The intrinsic error of exposure fusion for HDR imaging, and a way to reduce it. , 2015, , .		0
38	Spectral Sharpening of Color Sensors: Diagonal Color Constancy and Beyond. Sensors, 2014, 14, 3965-3985.	2.1	13
39	Perceptual Color Characterization of Cameras. Sensors, 2014, 14, 23205-23229.	2.1	24
40	Gamut Mapping in Cinematography Through Perceptually-Based Contrast Modification. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 490-503.	7.3	24
41	Color Stabilization Along Time and Across Shots of the Same Scene, for One or Several Cameras of Unknown Specifications. IEEE Transactions on Image Processing, 2014, 23, 4564-4575.	6.0	26
42	Gamut Mapping through Perceptually-Based Contrast Reduction. Lecture Notes in Computer Science, 2014, , 1-11.	1.0	2
43	Coloresia: An Interactive Colour Perception Device for the Visually Impaired. Intelligent Systems Reference Library, 2013, , 47-66.	1.0	3
44	Spectral sharpening by spherical sampling. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1199.	0.8	7
45	A new spectrally sharpened sensor basis to predict color naming, unique hues, and hue cancellation. Journal of Vision, 2012, 12, 7-7.	0.1	20
46	Color Constancy by Category Correlation. IEEE Transactions on Image Processing, 2012, 21, 1997-2007.	6.0	27
47	Color Constancy Algorithms: Psychophysical Evaluation on a New Dataset. Journal of Imaging Science and Technology, 2009, 53, 31105-1-31105-9.	0.3	22