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	Enhanced Variational Image Dehazing. SIAM Journal on Imaging Sciences, 2015, 8, 1519-1546.	1.3	84
2	NTIRE 2018 Challenge on Image Dehazing: Methods and Results. , 2018, , .		80
3	On the Duality Between Retinex and Image Dehazing. , 2018, , .		80
4	Fusion-based Variational Image Dehazing. IEEE Signal Processing Letters, 2016, , 1-1.	2.1	45
5	Color Constancy by Category Correlation. IEEE Transactions on Image Processing, 2012, 21, 1997-2007.	6.0	27
6	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
7	Perceptual Color Characterization of Cameras. Sensors, 2014, 14, 23205-23229.	2.1	24
8	Gamut Mapping in Cinematography Through Perceptually-Based Contrast Modification. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 490-503.	7.3	24
9	Color Constancy Algorithms: Psychophysical Evaluation on a New Dataset. Journal of Imaging Science and Technology, 2009, 53, 31105-1-31105-9.	0.3	22
10	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
11	A fast image dehazing method that does not introduce color artifacts. Journal of Real-Time Image Processing, 2020, 17, 607-622.	2.2	20
12	Color illusions also deceive CNNs for low-level vision tasks: Analysis and implications. Vision Research, 2020, 176, 156-174.	0.7	20
13	Gamut Extension for Cinema. IEEE Transactions on Image Processing, 2017, 26, 1595-1606.	6.0	15
14	Evidence for the intrinsically nonlinear nature of receptive fields in vision. Scientific Reports, 2020, 10, 16277.	1.6	14
15	Spectral Sharpening of Color Sensors: Diagonal Color Constancy and Beyond. Sensors, 2014, 14, 3965-3985.	2.1	13
16	Convolutional Neural Networks Can Be Deceived by Visual Illusions. , 2019, , .		13
17	Vision Models for Wide Color Gamut Imaging in Cinema. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1777-1790.	9.7	12
18	Simultaneous Blind Gamma Estimation. IEEE Signal Processing Letters, 2015, 22, 1316-1320.	2.1	11

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19	Physical-based optimization for non-physical image dehazing methods. Optics Express, 2020, 28, 9327.	1.7	11
20	Color Matching Images With Unknown Non-Linear Encodings. IEEE Transactions on Image Processing, 2020, 29, 4435-4444.	6.0	9
21	Angular-Based Preprocessing for Image Denoising. IEEE Signal Processing Letters, 2018, 25, 219-223.	2.1	8
22	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
23	A Variational Framework for Single Image Dehazing. Lecture Notes in Computer Science, 2015, , 259-270.	1.0	6
24	A tone mapping operator based on neural and psychophysical models of visual perception. Proceedings of SPIE, 2015, , .	0.8	5
25	Log-encoding estimation for color stabilization of cinematic footage. , 2016, , .		5
26	Spatial gamut mapping among non-inclusive gamuts. Journal of Visual Communication and Image Representation, 2018, 54, 204-212.	1.7	5
27	The Potential of Light Fields in Media Productions. , 2019, , .		4
28	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
29	Coloresia: An Interactive Colour Perception Device for the Visually Impaired. Intelligent Systems Reference Library, 2013, , 47-66.	1.0	3
30	Gamut extension for cinema: psychophysical evaluation of the state of the art and a new algorithm. , 2015, , .		2
31	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
32	Perceptually-based Gamut Extension Algorithm for Emerging Wide Color Gamut Display and Projection Technologies. , 2016, , .		2
33	Color-matching Shots from Different Cameras Having Unknown Gamma or Logarithmic Encoding Curves. , 2017, , .		2
34	Gamut Mapping through Perceptually-Based Contrast Reduction. Lecture Notes in Computer Science, 2014, , 1-11.	1.0	2
35	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
36	Perceptually-based restoration of backlit images. Color and Imaging Conference, 2018, 26, 32-37.	0.1	2

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37	On the synthesis of visual illusions using deep generative models. Journal of Vision, 2022, 22, 2.	0.1	2
38	Automatic, Fast and Perceptually Accurate Gamut Mapping Based on Vision Science Models. , 2017, , .		1
39	Weakly Supervised Fog Detection. , 2018, , .		1
40	A Study of Objective Quality Metrics for HLG-Based HDR/WCG Image Coding. Smpte Motion Imaging Journal, 2021, 130, 53-65.	0.2	1
41	Coupled Retinex. Color and Imaging Conference, 2019, 2019, 7-12.	0.1	1
42	Color Stabilization for Multi-Camera Light-Field Imaging. , 2020, , .		0
43	Matching visual induction effects on screens of different size. Journal of Vision, 2021, 21, 10.	0.1	0
44	The intrinsic error of exposure fusion for HDR imaging, and a way to reduce it. , 2015, , .		0
45	Variational Methods for Gamut Mapping in Cinema and Television. Mathematics and Visualization, 2018, , 67-100.	0.4	0
46	Using the Monge-Kantorovitch Transform in Chromagenic Color Constancy for Pathophysiology. Lecture Notes in Computer Science, 2019, , 121-133.	1.0	0
47	Physically Plausible Dehazing for Non-physical Dehazing Algorithms. Lecture Notes in Computer Science, 2019, , 233-244.	1.0	0