

Sabine SÃ¼sstrunk

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

5,240
citations

933264

10
h-index

610775

24
g-index

59
all docs

59
docs citations

59
times ranked

3333
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency-tuned salient region detection. , 2009, , .		2,774
2	High dynamic range image rendering with a retinex-based adaptive filter. IEEE Transactions on Image Processing, 2006, 15, 2820-2830.	6.0	299
3	Saliency detection using maximum symmetric surround. , 2010, , .		282
4	Linear demosaicing inspired by the human visual system. IEEE Transactions on Image Processing, 2005, 14, 439-449.	6.0	259
5	Frequency-tuned salient region detection. , 2009, , .		223
6	Superpixels and Polygons Using Simple Non-iterative Clustering. , 2017, , .		216
7	Saliency detection for content-aware image resizing. , 2009, , .		145
8	Color image dehazing using the near-infrared. , 2009, , .		140
9	Higher Order SVD Analysis for Dynamic Texture Synthesis. IEEE Transactions on Image Processing, 2008, 17, 42-52.	6.0	105
10	Single Image Reflection Suppression. , 2017, , .		94
11	Kernel Modeling Super-Resolution on Real Low-Resolution Images. , 2019, , .		87
12	Blind Universal Bayesian Image Denoising With Gaussian Noise Level Learning. IEEE Transactions on Image Processing, 2020, 29, 4885-4897.	6.0	75
13	Non-Parametric Blur Map Regression for Depth of Field Extension. IEEE Transactions on Image Processing, 2016, 25, 1660-1673.	6.0	55
14	Designing color filter arrays for the joint capture of visible and near-infrared images. , 2009, , .		50
15	Seam Carving for Text Line Extraction on Color and Grayscale Historical Manuscripts. , 2014, , .		42
16	Correlation-based joint acquisition and demosaicing of visible and near-infrared images. , 2011, , .		26
17	Face recognition in real-world images. , 2017, , .		26
18	The gigavision camera. , 2009, , .		25

#	ARTICLE	IF	CITATIONS
19	Mapping colour in image stitching applications. Journal of Visual Communication and Image Representation, 2004, 15, 65-90.	1.7	24
20	A novel compressive sensing approach to simultaneously acquire color and near-infrared images on a single sensor. , 2013, , .		24
21	Repairing gamut problems in CIECAM02: A progress report. Color Research and Application, 2008, 33, 424-426.	0.8	23
22	Deep Residual Network for Joint Demosaicing and Super-Resolution. Color and Imaging Conference, 2018, 26, 75-80.	0.1	22
23	High Reliefs from 3D Scenes. Computer Graphics Forum, 2015, 34, 253-263.	1.8	18
24	Stochastic Frequency Masking to Improve Super-Resolution and Denoising Networks. Lecture Notes in Computer Science, 2020, , 749-766.	1.0	18
25	Color representation in deep neural networks. , 2017, , .		16
26	W2S: Microscopy Data with Joint Denoising and Super-Resolution for Widefield to SIM Mapping. Lecture Notes in Computer Science, 2020, , 474-491.	1.0	12
27	Chromatic contrast detection in spatial chromatic noise. Visual Neuroscience, 2004, 21, 291-294.	0.5	11
28	Simultaneous Geometric and Radiometric Calibration of a Projector-Camera Pair. , 2017, , .		10
29	NTIRE 2021 Depth Guided Image Relighting Challenge. , 2021, , .		10
30	Image reconstruction in the gigavision camera. , 2009, , .		9
31	8.1 : Invited Paper: Enhancing the Visible with the Invisible: Exploiting Near-Infrared to Advance Computational Photography and Computer Vision. Digest of Technical Papers SID International Symposium, 2010, 41, 90.	0.1	9
32	Extreme image completion. , 2017, , .		9
33	Mirror, Mirror, on the Wall, Whoâ€™s Got the Clearest Image of Them All?â€”A Tailored Approach to Single Image Reflection Removal. IEEE Transactions on Image Processing, 2019, 28, 6185-6197.	6.0	9
34	Correlation-based deblurring leveraging multispectral chromatic aberration in color and near-infrared joint acquisition. , 2017, , .		8
35	Effects of motion and configural complexity on color transparency perception. Visual Neuroscience, 2006, 23, 591-596.	0.5	7
36	Automatic detection of dust and scratches in silver halide film using polarized dark-field illumination. , 2013, , .		7

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37	Multiscale guided deblurring: Chromatic aberration correction in color and near-infrared imaging. , 2015, , .		7
38	BIGPrior: Toward Decoupling Learned Prior Hallucination and Data Fidelity in Image Restoration. IEEE Transactions on Image Processing, 2022, 31, 1628-1640.	6.0	6
39	Fidelity Estimation Improves Noisy-Image Classification With Pretrained Networks. IEEE Signal Processing Letters, 2021, 28, 1719-1723.	2.1	5
40	Demultiplexing Visible and Near-Infrared Information in Single-Sensor Multispectral Imaging. Color and Imaging Conference, 2016, 24, 76-81.	0.1	5
41	Evaluating salient object detection in natural images with multiple objects having multi-level saliency. IET Image Processing, 2020, 14, 2249-2262.	1.4	5
42	Optimizing Latent Space Directions for Gan-Based Local Image Editing. , 2022, , .		5
43	Dynamic Texture Synthesis: Compact Models Based on Luminance-Chrominance Color Representation. , 2006, , .		4
44	Compression of multispectral images: Color (RGB) plus near-infrared (NIR). , 2012, , .		4
45	Scale-Adaptive Superpixels. Color and Imaging Conference, 2018, 26, 1-6.	0.1	4
46	GUI-aided NIR and color image blending. , 2010, , .		3
47	Handheld Reflectance Acquisition of Paintings. IEEE Transactions on Computational Imaging, 2017, 3, 580-591.	2.6	3
48	Deep Gaussian Denoiser Epistemic Uncertainty and Decoupled Dual-Attention Fusion. , 2021, , .		3
49	AL2: Progressive Activation Loss for Learning General Representations in Classification Neural Networks. , 2020, , .		2
50	Estimating Image Depth in the Comics Domain. , 2022, , .		2
51	Face image enhancement using 3D and spectral information. , 2009, , .		1
52	A practical method for measuring the spatial frequency response of light field cameras. , 2014, , .		1
53	Preserving perceptual contrast in decolorization with optimized color orders. , 2017, , .		1
54	Training Provably Robust Models by Polyhedral Envelope Regularization. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3146-3160.	7.2	1

#	ARTICLE	IF	CITATIONS
55	Solving the depth ambiguity in single-perspective images. OSA Continuum, 2019, 2, 2901.	1.8	1
56	Keyword-based image color re-rendering with semantic segmentation. , 2017, , .		0
57	Divergence-Based Adaptive Extreme Video Completion. , 2020, , .		0
58	Natural-Looking Adversarial Examples from Freehand Sketches. , 2022, , .		0