Christine Guillemot

List of Publications by Year
in descending order

65 papers	1,543 citations	430442 18 h-index	377514 34 g-index
66 all docs	66 docs citations	66 times ranked	1055 citing authors

#	Article	IF	Citations
1	Distributed Monoview and Multiview Video Coding. IEEE Signal Processing Magazine, 2007, 24, 67-76.	4.6	125
2	Light Field Inpainting Propagation via Low Rank Matrix Completion. IEEE Transactions on Image Processing, 2018, 27, 1981-1993.	6.0	89
3	Hierarchical Super-Resolution-Based Inpainting. IEEE Transactions on Image Processing, 2013, 22, 3779-3790.	6.0	87
4	A Framework for Learning Depth From a Flexible Subset of Dense and Sparse Light Field Views. IEEE Transactions on Image Processing, 2019, 28, 5867-5880.	6.0	86
5	Light Field Compression With Homography-Based Low-Rank Approximation. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 1132-1145.	7.3	75
6	Distributed Video Coding: Selecting the most promising application scenarios. Signal Processing: Image Communication, 2008, 23, 339-352.	1.8	73
7	Super Resolution of Light Field Images Using Linear Subspace Projection of Patch-Volumes. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 1058-1071.	7.3	73
8	Depth-based image completion for view synthesis. , 2011, , .		63
9	Soft decoding and synchronization of arithmetic codes: application to image transmission over noisy channels. IEEE Transactions on Image Processing, 2003, 12, 1599-1609.	6.0	58
10	Image Compression Using Sparse Representations and the Iteration-Tuned and Aligned Dictionary. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1061-1073.	7.3	56
11	A Fourier Disparity Layer Representation for Light Fields. IEEE Transactions on Image Processing, 2019, 28, 5740-5753.	6.0	54
12	Face Hallucination Using Linear Models of Coupled Sparse Support. IEEE Transactions on Image Processing, 2017, 26, 4562-4577.	6.0	45
13	Light field compression using depth image based view synthesis. , 2017, , .		41
14	Context-Adaptive Neural Network-Based Prediction for Image Compression. IEEE Transactions on Image Processing, 2020, 29, 679-693.	6.0	36
15	Learning Fused Pixel and Feature-Based View Reconstructions for Light Fields. , 2020, , .		34
16	Out-of-Sample Generalizations for Supervised Manifold Learning for Classification. IEEE Transactions on Image Processing, 2016, 25, 1410-1424.	6.0	27
17	Superrays for Efficient Light Field Processing. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 1187-1199.	7.3	26
18	Light Field Super-Resolution using a Low-Rank Prior and Deep Convolutional Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	9.7	26

#	Article	IF	Citations
19	Distributed Coding Using Punctured Quasi-Arithmetic Codes for Memory and Memoryless Sources. IEEE Transactions on Signal Processing, 2009, 57, 4154-4158.	3.2	25
20	Robust Video Coding Based on Multiple Description Scalar Quantization With Side Information. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 769-779.	5.6	25
21	Object removal and loss concealment using neighbor embedding methods. Signal Processing: Image Communication, 2013, 28, 1405-1419.	1.8	25
22	Depth Estimation with Occlusion Handling from a Sparse Set of Light Field Views. , 2018, , .		25
23	Impact of light field compression on focus stack and extended focus images. , 2016, , .		24
24	Scalable light field compression scheme using sparse reconstruction and restoration. , 2017, , .		21
25	Light Field Compression Using Fourier Disparity Layers. , 2019, , .		20
26	Bit-rate allocation for multi-view video plus depth. , 2011, , .		19
27	Geometry-Aware Graph Transforms for Light Field Compact Representation. IEEE Transactions on Image Processing, 2020, 29, 602-616.	6.0	17
28	New adaptive filters as perceptual preprocessing for rate-quality performance optimization of video coding. Signal Processing: Image Communication, 2017, 52, 124-137.	1.8	15
29	Multi-Shot Single Sensor Light Field Camera Using a Color Coded Mask. , 2018, , .		15
30	Graph-based Transforms for Predictive Light Field Compression based on Super-Pixels. , 2018, , .		14
31	A Learning Based Depth Estimation Framework for 4D Densely and Sparsely Sampled Light Fields. , 2019, , .		14
32	Immersive Video Coding: Should Geometry Information Be Transmitted as Depth Maps?. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3250-3264.	5.6	13
33	Joint projection filling method for occlusion handling in Depth-Image-Based Rendering. 3D Research, 2011, 2, 1.	1.8	12
34	Bypassing Depth Maps Transmission For Immersive Video Coding. , 2019, , .		12
35	Layered Coding Schemes for Video Transmission on ATM Networks. Journal of Visual Communication and Image Representation, 1994, 5, 62-74.	1.7	11
36	Gradient-Based Tone Mapping for Rate-Distortion Optimized Backward-Compatible High Dynamic Range Compression. IEEE Transactions on Image Processing, 2017, 26, 5936-5949.	6.0	11

#	Article	IF	Citations
37	Deep Frame Interpolation for Video Compression. , 2019, , .		11
38	Light Fields for Face Analysis. Sensors, 2019, 19, 2687.	2.1	11
39	Local Low Rank Approximation With a Parametric Disparity Model for Light Field Compression. IEEE Transactions on Image Processing, 2020, 29, 9641-9653.	6.0	10
40	Incremental-LDI for multi-view coding. , 2009, , .		9
41	Inter-Layer Prediction of Color in High Dynamic Range Image Scalable Compression. IEEE Transactions on Image Processing, 2016, 25, 3585-3596.	6.0	8
42	Distributed coding of three binary and Gaussian correlated sources using punctured Turbo Codes. Signal Processing, 2006, 86, 3131-3149.	2.1	7
43	Local inverse tone curve learning for high dynamic range image scalable compression. IEEE Transactions on Image Processing, 2015, 24, 5753-5763.	6.0	7
44	A simple framework to leverage state-of-the-art single-image super-resolution methods to restore light fields. Signal Processing: Image Communication, 2020, 80, 115638.	1.8	7
45	Single Sensor Compressive Light Field Video Camera. Computer Graphics Forum, 2020, 39, 463-474.	1.8	7
46	Multi-Mask Camera Model for Compressed Acquisition of Light Fields. IEEE Transactions on Computational Imaging, 2021, 7, 191-208.	2.6	7
47	Rate-Distortion Optimized Graph Coarsening and Partitioning for Light Field Coding. IEEE Transactions on Image Processing, 2021, 30, 5518-5532.	6.0	7
48	A learning-based view extrapolation method for axial super-resolution. Neurocomputing, 2021, 455, 229-241.	3.5	7
49	Prediction and Sampling With Local Graph Transforms for Quasi-Lossless Light Field Compression. IEEE Transactions on Image Processing, 2020, 29, 3282-3295.	6.0	6
50	Joint source-channel coding as an element of a QoS framework for â€˜4Gâ€™ wireless multimedia. Computer Communications, 2004, 27, 762-779.	3.1	5
51	Geometry-Aware Neighborhood Search for Learning Local Models for Image Superresolution. IEEE Transactions on Image Processing, 2016, 25, 1354-1367.	6.0	5
52	Deep Light Field Acquisition Using Learned Coded Mask Distributions for Color Filter Array Sensors. IEEE Transactions on Computational Imaging, 2021, 7, 475-488.	2.6	5
53	Inter-prediction methods based on linear embedding for video compression. Signal Processing: Image Communication, 2015, 37, 47-57.	1.8	4
54	A Light Field FDL-HSIFT Feature in Scale-Disparity Space. , 2021, , .		4

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55	Rate-Distortion Optimized Graph-Based Representation for Multiview Images With Complex Camera Configurations. IEEE Transactions on Image Processing, 2017, 26, 2644-2655.	6.0	3
56	Scene Flow Estimation From Sparse Light Fields Using a Local 4D Affine Model. IEEE Transactions on Computational Imaging, 2020, 6, 791-805.	2.6	3
57	Deep Residual Architecture Using Pixel and Feature Cues for View Synthesis and Temporal Interpolation. IEEE Transactions on Computational Imaging, 2022, 8, 246-259.	2.6	3
58	Deep Unrolling for Light Field Compressed Acquisition Using Coded Masks. IEEE Access, 2022, 10, 42933-42948.	2.6	3
59	A Sparse Non-parametric BRDF Model. ACM Transactions on Graphics, 2022, 41, 1-18.	4.9	3
60	Error-resilient decoding of context-based adaptive binary arithmetic codes. Signal, Image and Video Processing, 2007, 1, 77-87.	1.7	2
61	Color and Angular Reconstruction of Light Fields from Incomplete-Color Coded Projections. , 2020, , .		2
62	A Lightweight Neural Network for Monocular View Generation With Occlusion Handling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1832-1844.	9.7	2
63	Compressive HDR Light Field Imaging Using a Single Multi-ISO Sensor. IEEE Transactions on Computational Imaging, 2021, 7, 1369-1384.	2.6	2
64	Time-invariant and time-varying multirate filter banks : application to image coding. Annales Des Telecommunications/Annals of Telecommunications, 1998, 53, 192.	1.6	1
65	Four-Dimensional Anisotropic Diffusion Framework With PDEs for Light Field Regularization and Inverse Problems. IEEE Transactions on Computational Imaging, 2020, 6, 109-124.	2.6	0