Adrian Munteanu

List of Publications by Year
in descending order

88 papers	1,082 citations	430874 18 h-index	501196 28 g-index
89 all docs	89 docs citations	89 times ranked	967 citing authors

#	Article	IF	Citations
1	Hourglass-ShapeNetwork Based Semantic Segmentation for High Resolution Aerial Imagery. Remote Sensing, 2017, 9, 522.	4.0	110
2	Computer-generated holograms by multiple wavefront recording plane method with occlusion culling. Optics Express, 2015, 23, 22149.	3.4	80
3	Encryption for high efficiency video coding with video adaptation capabilities. IEEE Transactions on Consumer Electronics, 2013, 59, 634-642.	3.6	56
4	Performance Evaluation of IEEE 802.11ah Networks With High-Throughput Bidirectional Traffic. Sensors, 2018, 18, 325.	3.8	54
5	JPEG 2000-based compression of fringe patterns for digital holographic microscopy. Optical Engineering, 2014, 53, 123102.	1.0	47
6	Scalable Joint Source-Channel Coding for the Scalable Extension of H.264/AVC. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 1657-1670.	8.3	31
7	Spatio-Temporally Consistent Color and Structure Optimization for Multiview Video Color Correction. IEEE Transactions on Multimedia, 2015, 17, 577-590.	7.2	28
8	Learning to Estimate the Body Shape Under Clothing From a Single 3-D Scan. IEEE Transactions on Industrial Informatics, 2021, 17, 3793-3802.	11.3	27
9	Overlapped Block Motion Estimation and Probabilistic Compensation with Application in Distributed Video Coding. IEEE Signal Processing Letters, 2009, 16, 743-746.	3.6	26
10	Deep-Learning based Lossless Image Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2020, , 1-1.	8.3	26
11	Deep Learning for Precipitation Estimation from Satellite and Rain Gauges Measurements. Remote Sensing, 2019, 11, 2463.	4.0	23
12	Scalable Intraband and Composite Wavelet-Based Coding of Semiregular Meshes. IEEE Transactions on Multimedia, 2010, 12, 773-789.	7.2	22
13	Robust Multiview Synthesis for Wide-Baseline Camera Arrays. IEEE Transactions on Multimedia, 2018, 20, 2235-2248.	7.2	22
14	Frame-Wise CNN-Based Filtering for Intra-Frame Quality Enhancement of HEVC Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2100-2113.	8.3	21
15	Maximum Likelihood Laplacian Correlation Channel Estimation in Layered Wyner-Ziv Coding. IEEE Transactions on Signal Processing, 2014, 62, 892-904.	5.3	20
16	Efficient Low-Delay Distributed Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 530-544.	8.3	19
17	3DBodyNet: Fast Reconstruction of 3D Animatable Human Body Shape From a Single Commodity Depth Camera. IEEE Transactions on Multimedia, 2022, 24, 2139-2149.	7.2	19
18	Real-Time Depth Video-Based Rendering for 6-DoF HMD Navigation and Light Field Displays. IEEE Access, 2021, 9, 146868-146887.	4.2	19

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19	Distributed Joint Source-Channel Coding With Copula-Function-Based Correlation Modeling for Wireless Sensors Measuring Temperature. IEEE Sensors Journal, 2015, 15, 4496-4507.	4.7	17
20	Unitary Transforms Using Time-Frequency Warping for Digital Holograms of Deep Scenes. IEEE Transactions on Computational Imaging, 2018, 4, 206-218.	4.4	16
21	A Deep Learning Multimodal Method for Precipitation Estimation. Remote Sensing, 2021, 13, 3278.	4.0	16
22	Distributed coding of endoscopic video. , 2011, , .		15
23	Efficient MRF-based disocclusion inpainting in multiview video. , 2016, , .		15
24	CNN-based Prediction for Lossless Coding of Photographic Images. , 2018, , .		15
25	Macro-Pixel Prediction Based on Convolutional Neural Networks for Lossless Compression of Light Field Images. , 2018, , .		15
26	Color retargeting: Interactive time-varying color image composition from time-lapse sequences. Computational Visual Media, 2015, 1, 321-330.	17.5	14
27	L1-optimized linear prediction for light field image compression. , 2016, , .		14
28	CNN-based Intra-Prediction for Lossless HEVC. IEEE Transactions on Circuits and Systems for Video Technology, 2019, , 1-1.	8.3	14
29	Deep-learning-based macro-pixel synthesis and lossless coding of light field images. APSIPA Transactions on Signal and Information Processing, 2019, 8, .	3.3	13
30	Real-Time Instance Segmentation of Traffic Videos for Embedded Devices. Sensors, 2021, 21, 275.	3.8	13
31	Dictionary Learning-Based, Directional, and Optimized Prediction for Lenslet Image Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1116-1129.	8.3	12
32	Deep Learning-Based Automated Extraction of Anthropometric Measurements From a Single 3-D Scan. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	12
33	Distributed Video Coding With Feedback Channel Constraints. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1014-1026.	8.3	11
34	Decoder-driven mode decision in a block-based distributed video codec. Multimedia Tools and Applications, 2012, 58, 239-266.	3.9	11
35	Depth-based view synthesis using pixel-level image inpainting. , 2013, , .		11
36	Encryption for High Efficiency Video Coding with video adaptation capabilities. , 2013, , .		11

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37	Deep Learning Based Angular Intra-Prediction for Lossless HEVC Video Coding. , 2019, , .		11
38	Efficient directional and L1-optimized intra-prediction for light field image compression. , 2017, , .		9
39	Cnn-based Denoising of Time-Of-Flight Depth Images. , 2018, , .		9
40	Depth Estimation for Light-Field Images Using Stereo Matching and Convolutional Neural Networks. Sensors, 2020, 20, 6188.	3.8	9
41	On the side-information dependency of the temporal correlation in Wyner-Ziv video coding. , 2009, , .		8
42	A generic method of wearable items virtual try-on. Textile Reseach Journal, 2020, 90, 2161-2174.	2.2	8
43	Low-Rank Constrained Super-Resolution for Mixed-Resolution Multiview Video. IEEE Transactions on Image Processing, 2021, 30, 1072-1085.	9.8	8
44	Modeling the Correlation Noise in Spatial Domain Distributed Video Coding. , 2009, , .		7
45	Transform-domain Wyner-Ziv video coding for 1K-pixel visual sensors. , 2013, , .		7
46	Performance optimizations for PatchMatch-based pixel-level multiview inpainting. , 2013, , .		7
47	Color correction for large-baseline multiview video. Signal Processing: Image Communication, 2017, 53, 40-50.	3.2	7
48	Spatial-domain unidirectional DVC with side-information dependent correlation channel estimation. , 2009, , .		5
49	Correlation channel estimation in pixel-domain distributed video coding. , 2009, , .		5
50	Probabilistic motion-compensated prediction in distributed video coding. Multimedia Tools and Applications, 2013, 66, 405-430.	3.9	5
51	Lightweight real-time error-resilient encoding of visual sensor data. Journal of Real-Time Image Processing, 2016, 12, 775-789.	3.5	5
52	Scalable Wavelet-Based Coding of Irregular Meshes With Interactive Region-of-Interest Support. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2067-2081.	8.3	5
53	Segmentation-Driven Direction-Adaptive Discrete Wavelet Transform. Proceedings International Conference on Image Processing, 2007, , .	0.0	4
54	Maximum likelihood motion compensation for distributed video coding. Integrated Computer-Aided Engineering, 2012, 19, 215-227.	4.6	4

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55	Efficient adaptive-shape partitioning of video. Multimedia Tools and Applications, 2012, 56, 385-417.	3.9	4
56	Demo: depth estimation for 1K-pixel stereo visual sensors. , 2013, , .		4
57	Perceptual video quality assessment in HTTP adaptive streaming. , 2015, , .		4
58	On the Rate-Distortion Function for Binary Source Coding With Side Information. IEEE Transactions on Communications, 2016, 64, 5203-5216.	7.8	4
59	A Study Of Prediction Methods Based On Machine Learning Techniques For Lossless Image Coding. , 2020, , .		4
60	Context-conditioned composite coding of 3D meshes based on wavelets on surfaces. , 2009, , .		3
61	Reversible DCT-based lossy-to-lossless still image compression. , 2013, , .		3
62	Binary rate distortion with side information: The asymmetric correlation channel case. , 2015, , .		3
63	Message-Based Communication for Heterogeneous Internet of Things Systems. Sensors, 2020, 20, 861.	3.8	3
64	Intra-frame video coding using an open-loop predictive coding approach. , 2008, , .		2
65	Fully scalable intraband coding of wavelet-decomposed 3D meshes. , 2009, , .		2
66	Correlation modeling with decoder-side quantization distortion estimation for distributed video coding. , 2010, , .		2
67	Visually lossless screen content coding using HEVC base-layer. , 2013, , .		2
68	3D Mesh coding with predefined region-of-interest. , 2017, , .		2
69	Optimized wavelet-based texture representation and streaming for GPU texture mapping. Multimedia Tools and Applications, 2018, 77, 2873-2899.	3.9	2
70	DEPTH ESTIMATION IN LIGHT FIELD CAMERA ARRAYS BASED ON MULTI-STEREO MATCHING AND BELIEF PROPAGATION. , 2018, , .		2
71	Multi-stereo Matching for Light Field Camera Arrays. , 2018, , .		2
72	MaskLayer: Enabling scalable deep learning solutions by training embedded feature sets. Neural Networks, 2021, 137, 43-53.	5.9	2

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73	Rate-Distortion Optimized Wavelet-based Irregular Mesh Coding. , 2017, , .		2
74	A Deep Learning Approach to Automatically Extract 3D Hand Measurements. , 2022, , .		2
75	Automatic and Fast Extraction of 3D Hand Measurements using a Deep Neural Network. , 2022, , .		2
76	L-infinite Coding of 3D Representations of Human Affect. , 2012, , .		1
77	Making Communication a First-Class Citizen in Multicore Partitioning. , 2013, , .		1
78	Synthesis of Shaking Video Using Motion Capture Data and Dynamic 3D Scene Modeling. , 2018, , .		1
79	Frame-Wise CNN-Based View Synthesis for Light Field Camera Arrays. , 2019, , .		1
80	A Study of Deep-Learning-based Prediction Methods for Lossless Coding. , 2021, , .		1
81	Attention Networks for the Quality Enhancement of Light Field Images. Sensors, 2021, 21, 3246.	3.8	1
82	Deep Learning Post-Filtering Using Multi-Head Attention and Multiresolution Feature Fusion for Image and Intra-Video Quality Enhancement. Sensors, 2022, 22, 1353.	3.8	1
83	Deep Denoising for Multiview Depth Cameras. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	1
84	Semi-regular remeshing with reduced remeshing error. , 2010, , .		0
85	Real-time texture sampling and reconstruction with wavelet filters. , 2013, , .		0
86	Joint Registration of Multiple Point Sets with Refinement. , 2019, , .		0
87	Multiview conversion of 2D cartoon images. Communications in Information and Systems, 2016, 16, 229-254.	0.5	0
88	A Low-Power Distributed Visual Sensor Network for Real-Time Barcode Localization and Identification. Sensors, 2022, 22, 1433.	3.8	0