Cheolkon Jung

List of Publications by Year
in descending order

155 papers	1,859 citations	394421 19 h-index	345221 36 g-index
155 all docs	155 docs citations	155 times ranked	1712 citing authors

#	Article	IF	Citations
1	Position-Patch Based Face Hallucination Using Convex Optimization. IEEE Signal Processing Letters, 2011, 18, 367-370.	3.6	210
2	Automatic Contrast-Limited Adaptive Histogram Equalization With Dual Gamma Correction. IEEE Access, 2018, 6, 11782-11792.	4.2	160
3	DCSR: Dilated Convolutions for Single Image Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 1625-1635.	9.8	121
4	Image deblocking via sparse representation. Signal Processing: Image Communication, 2012, 27, 663-677.	3.2	99
5	Fully Convolutional Siamese Fusion Networks for Object Tracking. , 2018, , .		79
6	GBDT-MO: Gradient-Boosted Decision Trees for Multiple Outputs. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3156-3167.	11.3	65
7	A stroke filter and its application to text localization. Pattern Recognition Letters, 2009, 30, 114-122.	4.2	61
8	Retinex-Based Perceptual Contrast Enhancement in Images Using Luminance Adaptation. IEEE Access, 2018, 6, 61277-61286.	4.2	45
9	Interactive Image Segmentation Using Adaptive Constraint Propagation. IEEE Transactions on Image Processing, 2016, 25, 1301-1311.	9.8	42
10	Low light image enhancement with dual-tree complex wavelet transform. Journal of Visual Communication and Image Representation, 2017, 42, 28-36.	2.8	40
11	Head pose estimation using deep neural networks and 3D point clouds. Pattern Recognition, 2022, 121, 108210.	8.1	33
12	A new approach for text segmentation using a stroke filter. Signal Processing, 2008, 88, 1907-1916.	3.7	30
13	Accurate text localization in images based on SVM output scores. Image and Vision Computing, 2009, 27, 1295-1301.	4.5	30
14	NIR to RGB Domain Translation Using Asymmetric Cycle Generative Adversarial Networks. IEEE Access, 2019, 7, 112459-112469.	4.2	30
15	Single Image Reflection Removal Using Convolutional Neural Networks. IEEE Transactions on Image Processing, 2019, 28, 1954-1966.	9.8	30
16	Eye detection under varying illumination using the retinex theory. Neurocomputing, 2013, 113, 130-137.	5.9	27
17	Perceptual Enhancement of Low Light Images Based on Two-Step Noise Suppression. IEEE Access, 2018, 6, 7005-7018.	4.2	27
18	Variational Fusion of Time-of-Flight and Stereo Data for Depth Estimation Using Edge-Selective Joint Filtering. IEEE Transactions on Multimedia, 2018, 20, 2882-2890.	7.2	27

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19	Optimized Perceptual Tone Mapping for Contrast Enhancement of Images. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1161-1170.	8.3	25
20	Low light image enhancement based on two-step noise suppression. , 2017, , .		23
21	Class-Discriminative Kernel Sparse Representation-Based Classification Using Multi-Objective Optimization. IEEE Transactions on Signal Processing, 2013, 61, 4416-4427.	5.3	20
22	Automatic cardiac MRI segmentation and permutation-invariant pathology classification using deep neural networks and point clouds. Neurocomputing, 2020, 418, 270-279.	5.9	19
23	Automatic Segmentation and Cardiopathy Classification in Cardiac Mri Images Based on Deep Neural Networks. , 2018, , .		17
24	Siamese Dense Network for Reflection Removal with Flash and No-Flash Image Pairs. International Journal of Computer Vision, 2020, 128, 1673-1698.	15.6	17
25	Perceptual multi-exposure image fusion with overall image quality index and local saturation. Multimedia Systems, 2017, 23, 239-250.	4.7	16
26	Perceptually Optimized Enhancement of Contrast and Color in Images. IEEE Access, 2018, 6, 36132-36142.	4.2	16
27	A fast deconvolution-based approach for single-image super-resolution with GPU acceleration. Journal of Real-Time Image Processing, 2018, 14, 501-512.	3.5	15
28	Fusionnet: Multispectral Fusion of RGB and NIR Images Using Two Stage Convolutional Neural Networks. IEEE Access, 2020, 8, 23912-23919.	4.2	15
29	Weakly-supervised temporal attention 3D network for human action recognition. Pattern Recognition, 2021, 119, 108068.	8.1	15
30	Example-Based Video Stereolization With Foreground Segmentation and Depth Propagation. IEEE Transactions on Multimedia, 2014, 16, 1905-1914.	7.2	14
31	Interactive image segmentation via kernel propagation. Pattern Recognition, 2014, 47, 2745-2755.	8.1	13
32	Retinex-based perceptual contrast enhancement in images using luminance adaptation. , 2017, , .		13
33	Learning to Rank with Ensemble Ranking SVM. Neural Processing Letters, 2015, 42, 703-714.	3.2	12
34	Multi-Modal Reflection Removal Using Convolutional Neural Networks. IEEE Signal Processing Letters, 2019, 26, 1011-1015.	3.6	12
35	Interactive image retrieval using constraints. Neurocomputing, 2015, 161, 210-219.	5.9	11
36	Deep feature embedding learning for person re-identification based on lifted structured loss. Multimedia Tools and Applications, 2019, 78, 5863-5880.	3.9	11

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37	Joint Reflection Removal and Depth Estimation From a Single Image. IEEE Transactions on Cybernetics, 2020, , 1-14.	9.5	11
38	High dynamic range imaging on mobile devices using fusion of multiexposure images. Optical Engineering, 2013, 52, 102004.	1.0	10
39	Boundary-preserving stereo matching with certain region detection and adaptive disparity adjustment. Journal of Visual Communication and Image Representation, 2015, 33, 1-9.	2.8	10
40	Readability Enhancement of Displayed Images Under Ambient Light. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1481-1496.	8.3	10
41	Single Depth Image Super-Resolution Using Convolutional Neural Networks. , 2018, , .		10
42	Part-Level Convolutional Neural Networks for Pedestrian Detection Using Saliency and Boundary Box Alignment. IEEE Access, 2019, 7, 23027-23037.	4.2	10
43	Perceptual rate distortion optimisation for video coding using free‐energy principle. Electronics Letters, 2015, 51, 1656-1658.	1.0	9
44	Readability enhancement of low light images based on dual-tree complex wavelet transform. , 2016, , .		9
45	Adaptive tone mapping for display enhancement under ambient light using constrained optimization. Displays, 2019, 56, 11-22.	3.7	9
46	Facial image inpainting using attention-based multi-level generative network. Neurocomputing, 2021, 437, 95-106.	5.9	9
47	FinerPCN: High fidelity point cloud completion network using pointwise convolution. Neurocomputing, 2021, 460, 266-276.	5.9	9
48	Novel Bayesian deringing method â€¨in image interpolation and compression â€¨using a SGLI prior. Optics Express, 2010, 18, 7138.	3.4	8
49	Intensity-guided edge-preserving depth upsampling through weighted L 0 gradient minimization. Journal of Visual Communication and Image Representation, 2017, 42, 132-144.	2.8	8
50	Adaptive Constraint Propagation for Semi-Supervised Kernel Matrix Learning. Neural Processing Letters, 2015, 41, 107-123.	3.2	7
51	Adaptive PQ: Adaptive perceptual quantizer for HEVC main 10 profile-based HDR video coding. , 2016, , .		7
52	Joint Contrast Enhancement and Noise Reduction of Low Light Images Via JND Transform. IEEE Transactions on Multimedia, 2022, 24, 17-32.	7.2	7
53	Deep Cross Spectral Stereo Matching Using Multi-Spectral Image Fusion. IEEE Robotics and Automation Letters, 2022, 7, 5373-5380.	5.1	7
54	Spatial-gradient-local-inhomogeneity: an efficient image-denoising prior. Journal of Electronic Imaging, 2010, 19, 033005.	0.9	6

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55	Disparity-map-based rendering for mobile 3D TVs. IEEE Transactions on Consumer Electronics, 2011, 57, 1171-1175.	3.6	6
56	Visual comfort assessment in stereoscopic 3D images using salient object disparity. Electronics Letters, 2015, 51, 482-484.	1.0	6
57	2D to 3D conversion with motion-type adaptive depth estimation. Multimedia Systems, 2015, 21, 451-464.	4.7	6
58	Disparity-based just-noticeable-difference model for perceptual stereoscopic video coding using depth of focus blur effect. Displays, 2016, 42, 43-50.	3.7	6
59	Facial Image Inpainting Using Multi-level Generative Network. , 2019, , .		6
60	RegiNet: Gradient guided multispectral image registration using convolutional neural networks. Neurocomputing, 2020, 415, 193-200.	5.9	6
61	Deep Near Infrared Colorization with Semantic Segmentation and Transfer Learning. , 2020, , .		6
62	Automatic image segmentation using constraint learning and propagation. , 2014, 24, 106-116.		5
63	Superpixel matching-based depth propagation for 2D-to-3D conversion with joint bilateral filtering. , 2015, , .		5
64	Visual comfort assessment for stereoscopic 3D images based on salient discomfort regions. , 2015, , .		5
65	Real-Time Depth-Image-Based Rendering on GPU. , 2015, , .		5
66	Super‑speed up robust features image geometrical registration algorithm. IET Image Processing, 2016, 10, 848-864.	2.5	5
67	Complex Form of Local Orientation Plane for Visual Object Tracking. IEEE Access, 2017, 5, 21597-21604.	4.2	5
68	Naturalness-preserved tone mapping in images based on perceptual quantization. , 2017, , .		5
69	Readability Enhancement of Low Light Videos Based on Discrete Wavelet Transform. , 2017, , .		5
70	Fast Fourier Transform Networks for Object Tracking Based on Correlation Filter. IEEE Access, 2018, 6, 6594-6601.	4.2	5
71	Patch-Based Stereo Matching Using 3D Convolutional Neural Networks. , 2018, , .		5
72	Low Light Image Denoising Based on Poisson Noise Model and Weighted TV Regularization. , 2018, , .		5

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73	Intensity Guided Depth Upsampling Using Edge Sparsity and Super-Weighted L_0 Gradient Minimization. IEEE Access, 2019, 7, 140553-140565.	4.2	5
74	Semi-supervised kernel matrix learning using adaptive constraint-based seed propagation. Pattern Recognition, 2021, 112, 107750.	8.1	5
75	Single Image Depth Estimation Using Edge Extraction Network and Dark Channel Prior. IEEE Access, 2021, 9, 112454-112465.	4.2	5
76	Multispectral Fusion of RGB and NIR Images Using Weighted Least Squares and Convolution Neural Networks. IEEE Open Journal of Signal Processing, 2021, , 1-1.	3.5	5
77	Deep Selective Fusion of Visible and Near-Infrared Images Using Unsupervised U-Net. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-12.	11.3	5
78	Curvature preserving image super-resolution with gradient-consistency-anisotropic-regularization prior. Signal Processing: Image Communication, 2014, 29, 1211-1222.	3.2	4
79	Point-cut: Fixation point-based image segmentation using random walk model. , 2015, , .		4
80	Tone-preserving contrast enhancement in images using rational tone mapping and constrained optimization. , 2016, , .		4
81	Perceptual contrast enhancement of dark images based on textural coefficients. , 2016, , .		4
82	Reliability-Based Discontinuity-Preserving Stereo Matching. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1970-1975.	8.3	4
83	Visual saliency estimation using constraints. Neurocomputing, 2018, 290, 1-11.	5.9	4
84	Multi-Spectral Fusion and Denoising of RGB and NIR Images Using Multi-Scale Wavelet Analysis. , 2018, , .		4
85	Guided filtering based data fusion for light field depth estimation with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml... gradient minimization. Journal of Visual Communication and Image Representation, 2018, 55, 449-456.	2.8	4
86	Adaptive perceptual quantizer for high dynamic range video compression. Journal of Visual Communication and Image Representation, 2019, 58, 25-36.	2.8	4
87	Subband Adaptive Image Deblocking Using Wavelet Based Convolutional Neural Networks. IEEE Access, 2021, 9, 62593-62601.	4.2	4
88	AGNet: Attention Guided Sparse Depth Completion Using Convolutional Neural Networks. IEEE Access, 2022, 10, 10514-10522.	4.2	4
89	Image-guided depth propagation using superpixel matching and adaptive autoregressive model. , 2015, , .		3
90	Detail-preserving tone mapping for low dynamic range displays with adaptive gamma correction. , 2015, , .		3

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91	SQI-based illumination normalization for face recognition based on discrete wavelet transform. , 2016, , .		3
92	Surrounding adaptive tone mapping in displayed images under ambient light. , 2017, , .		3
93	Part-level fully convolutional networks for pedestrian detection. , 2017, , .		3
94	Variational fusion of time-of-flight and stereo data using edge selective joint filtering. , 2017, , .		3
95	Deep Feature Embedding Learning for Person Re-Identification Using Lifted Structured Loss. , 2018, , .		3
96	Alternately Guided Depth Super-resolution Using Weighted Least Squares and Zero-order Reverse Filtering. , 2019, , .		3
97	SPFEMD: Super-pixel Based Finger Earth Mover's Distance for Hand Gesture Recognition. , 2019, , .		3
98	Scale-Aware Multispectral Fusion of RGB and NIR Images Based on Alternating Guidance. IEEE Access, 2020, 8, 173197-173207.	4.2	3
99	Low Light Image Enhancement by Multispectral Fusion of RGB and NIR Images. , 2020, , .		3
100	Joint Enhancement And Denoising of Low Light Images Via JND Transform. , 2020, , .		3
101	Multispectral Fusion of RGB and NIR Images Using Weighted Least Squares and Alternating Guidance. , 2020, , .		3
102	Joint Disparity Estimation and Pseudo NIR Generation From Cross Spectral Image Pairs. IEEE Access, 2022, 10, 7153-7163.	4.2	3
103	Ensemble Ranking SVM for learning to rank. , 2011, , .		2
104	Toward high-quality image communications: inverse problems in image processing. Optical Engineering, 2012, 51, 100901-1.	1.0	2
105	Chrominance just‑noticeable‑distortion model based on human colour perception. Electronics Letters, 2014, 50, 1587-1589.	1.0	2
106	Dictionary based hole filling with assistance of depth. , 2014, , .		2
107	Perceptual backlight scaling for low power liquid crystal displays based on visual saliency. , 2015, , .		2
108	Combining Visual Saliency and Pattern Masking for Image Steganography. , 2015, , .		2

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109	Content adaptive video denoising based on human visual perception. Journal of Visual Communication and Image Representation, 2015, 31, 14-25.	2.8	2
110	Visual saliency estimation through label propagation. Electronics Letters, 2015, 51, 1073-1075.	1.0	2
111	HEVC encoder optimization for HDR video coding based on perceptual block merging. , 2016, , .		2
112	Perceptual stereoscopic video coding using disparity just-noticeable-distortion model. Journal of Visual Communication and Image Representation, 2017, 48, 195-204.	2.8	2
113	Interaction-free hand segmentation using kinect camera. , 2017, , .		2
114	High-Quality Virtual View Synthesis for Light Field Cameras Using Multi-Loss Convolutional Neural Networks. , 2018, , .		2
115	TV-SVM: Support Vector Machine with Total Variational Regularization. , 2018, , .		2
116	Intensity-Guided Depth Upsampling Using Edge Sparsity and Weighted <tex>L_{0}</tex> Gradient Minimization. , 2018, , .		2
117	DCM-CNN: Densely Connected Multiloss Convolutional Neural Networks for Light Field View Synthesis. IEEE Access, 2020, 8, 78542-78552.	4.2	2
118	NIR Image Colorization Using SPADE Generator and Grayscale Approximated Self-Reconstruction. , 2020, , .		2
119	WCDGAN: Weakly Connected Dense Generative Adversarial Network for Artifact Removal of Highly Compressed Images. IEEE Access, 2022, 10, 1637-1649.	4.2	2
120	A novel approach to motion segmentation based on gamma distribution. AEU - International Journal of Electronics and Communications, 2012, 66, 235-238.	2.9	1
121	Content adaptive image superresolution with gradient consistency and anisotropic regularization. , 2014, , .		1
122	Power-constrained backlight scaling using brightness compensated contrast-tone mapping operation. , 2015, , .		1
123	Perceptual block merging for quadtree-based partitioning in HEVC using disorderly concealment effect. , 2015, , .		1
124	Semi-supervised Bi-dictionary Learning Using Smooth Representation-Based Label Propagation. , 2015, , .		1
125	Korean-English bilingual videotext recognition for news headline generation based on a split-merge strategy. Journal of Real-Time Image Processing, 2016, 11, 167-177.	3.5	1
126	Adaptive enhancement of luminance and details in images under ambient light. , 2016, , .		1

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127	Color-guided boundary-preserving depth upsampling based on L<inf>0</inf> gradient minimization. , 2016, , .		1
128	Backward compatible opto-electrical transfer function for HDR video coding based on rational quantization. , 2016, , .		1
129	Rapid learning-based video stereolization using graphic processing unit acceleration. Journal of Electronic Imaging, 2016, 25, 053021.	0.9	1
130	Boundary-Preserving Depth Upsampling Without Texture Copying Artifacts and Holes. , 2017, , .		1
131	Comp-LOP: Complex form of local orientation plane for object tracking. , 2017, , .		1
132	Weighted Chroma Downsampling and Luma-Referenced Chroma Upsampling for HDR/WCG Video Coding. , 2018, , .		1
133	Unsupervised Person Re-identification Using Reliable and Soft Labels. , 2019, , .		1
134	Deep Fusion of RGB and NIR Paired Images Using Convolutional Neural Networks. , 2021, , .		1
135	Subband Adaptive Enhancement Of Low Light Images Using Wavelet-Based Convolutional Neural Networks. , 2021, , .		1
136	Progressive Face Super-Resolution with Non-Parametric Facial Prior Enhancement. , 2021, , .		1
137	Illumination Invariant Eye Detection in Facial Images Based on the Retinex Theory. Lecture Notes in Computer Science, 2012, , 175-183.	1.3	1
138	Image-guided depth propagation for 2-D-to-3-D video conversion using superpixel matching and adaptive autoregressive model. Journal of Electronic Imaging, 2017, 26, 1.	0.9	1
139	Perceptually motivated fast coding unit size decision for HEVC intracoding based on visual regularity. Journal of Electronic Imaging, 2018, 27, 1.	0.9	1
140	Visual Attention-Aware High Dynamic Range Quantization for HEVC Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4296-4311.	8.3	1
141	Image segmentation via manifold spectral clustering. , 2011, , .		0
142	Ringing artifact reduction of JPEG images using a SGLI prior. , 2011, , .		0
143	Improving dictionary based image super-resolution with nonlocal total variation regularization. , 2013, , .		0
144	Parallelization of deconvolution based image super-resolution on multi-core CPU platform. , 2014, , .		0

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145	Randomized Ring-Partition Fingerprinting with Dithered Lattice Vector Quantization. , 2015, , .		0
146	Structure tensor-based WLS filter for adaptive smoothing. , 2016, , .		0
147	Backlight scaled contrast enhancement for liquid crystal displays using image key-based compression. , 2016, , .		0
148	Power constrained contrast enhancement based on brightness compensated contrast-tone mapping operation. Journal of Electronic Imaging, 2016, 25, 053027.	0.9	0
149	Moment-Based Dense Correspondence Matching Robust to Image Variation. , 2017, , .		0
150	Adaptive Quantization-Based HDR Video Coding with HEVC Main 10 Profile. , 2017, , .		0
151	Weighted Chroma Downsampling and Luma-Referenced Chroma Upsampling for HDR/WCG Video Coding. IEEE Access, 2019, 7, 55237-55247.	4.2	0
152	Bi-Directional Depth Propagation for 2D-to-3D Conversion with Color/Depth-Based Superpixel Segmentation. , 2019, , .		0
153	Blocking Artifact Reduction in DIBR Using an Overcomplete 3D Dictionary. Lecture Notes in Computer Science, 2013, , 283-294.	1.3	0
154	3D DMB Player and Its Reliable 3D Services in T-DMB Systems. , 0, , 434-450.		0
155	Face 2D to 3D Reconstruction Network Based on Head Pose and 3D Facial Landmarks. , 2021, , .		0