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	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
2	Head pose estimation using deep neural networks and 3D point clouds. Pattern Recognition, 2022, 121, 108210.	8.1	33
3	Joint Contrast Enhancement and Noise Reduction of Low Light Images Via JND Transform. IEEE Transactions on Multimedia, 2022, 24, 17-32.	7.2	7
4	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
5	Joint Disparity Estimation and Pseudo NIR Generation From Cross Spectral Image Pairs. IEEE Access, 2022, 10, 7153-7163.	4.2	3
6	AGNet: Attention Guided Sparse Depth Completion Using Convolutional Neural Networks. IEEE Access, 2022, 10, 10514-10522.	4.2	4
7	WCDGAN: Weakly Connected Dense Generative Adversarial Network for Artifact Removal of Highly Compressed Images. IEEE Access, 2022, 10, 1637-1649.	4.2	2
8	Deep Cross Spectral Stereo Matching Using Multi-Spectral Image Fusion. IEEE Robotics and Automation Letters, 2022, 7, 5373-5380.	5.1	7
9	GBDT-MO: Gradient-Boosted Decision Trees for Multiple Outputs. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3156-3167.	11.3	65
10	Semi-supervised kernel matrix learning using adaptive constraint-based seed propagation. Pattern Recognition, 2021, 112, 107750.	8.1	5
11	Single Image Depth Estimation Using Edge Extraction Network and Dark Channel Prior. IEEE Access, 2021, 9, 112454-112465.	4.2	5
12	Deep Fusion of RGB and NIR Paired Images Using Convolutional Neural Networks. , 2021, , .		1
13	Subband Adaptive Image Deblocking Using Wavelet Based Convolutional Neural Networks. IEEE Access, 2021, 9, 62593-62601.	4.2	4
14	Facial image inpainting using attention-based multi-level generative network. Neurocomputing, 2021, 437, 95-106.	5.9	9
15	Subband Adaptive Enhancement Of Low Light Images Using Wavelet-Based Convolutional Neural Networks. , 2021, , .		1
16	Progressive Face Super-Resolution with Non-Parametric Facial Prior Enhancement. , 2021, , .		1
17	FinerPCN: High fidelity point cloud completion network using pointwise convolution. Neurocomputing, 2021, 460, 266-276.	5.9	9
18	Weakly-supervised temporal attention 3D network for human action recognition. Pattern Recognition, 2021, 119, 108068.	8.1	15

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19	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
20	Face 2D to 3D Reconstruction Network Based on Head Pose and 3D Facial Landmarks. , 2021, , .		0
21	Scale-Aware Multispectral Fusion of RGB and NIR Images Based on Alternating Guidance. IEEE Access, 2020, 8, 173197-173207.	4.2	3
22	Low Light Image Enhancement by Multispectral Fusion of RGB and NIR Images. , 2020, , .		3
23	Automatic cardiac MRI segmentation and permutation-invariant pathology classification using deep neural networks and point clouds. Neurocomputing, 2020, 418, 270-279.	5.9	19
24	Joint Enhancement And Denoising of Low Light Images Via JND Transform. , 2020, , .		3
25	RegiNet: Gradient guided multispectral image registration using convolutional neural networks. Neurocomputing, 2020, 415, 193-200.	5.9	6
26	DCM-CNN: Densely Connected Multiloss Convolutional Neural Networks for Light Field View Synthesis. IEEE Access, 2020, 8, 78542-78552.	4.2	2
27	Joint Reflection Removal and Depth Estimation From a Single Image. IEEE Transactions on Cybernetics, 2020, , 1-14.	9.5	11
28	Multispectral Fusion of RGB and NIR Images Using Weighted Least Squares and Alternating Guidance. , 2020, , .		3
29	Fusionnet: Multispectral Fusion of RGB and NIR Images Using Two Stage Convolutional Neural Networks. IEEE Access, 2020, 8, 23912-23919.	4.2	15
30	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
31	NIR Image Colorization Using SPADE Generator and Grayscale Approximated Self-Reconstruction. , 2020, , .		2
32	Deep Near Infrared Colorization with Semantic Segmentation and Transfer Learning. , 2020, , .		6
33	Facial Image Inpainting Using Multi-level Generative Network. , 2019, , .		6
34	Multi-Modal Reflection Removal Using Convolutional Neural Networks. IEEE Signal Processing Letters, 2019, 26, 1011-1015.	3.6	12
35	Intensity Guided Depth Upsampling Using Edge Sparsity and Super-Weighted L_0 Gradient Minimization. IEEE Access, 2019, 7, 140553-140565.	4.2	5
36	NIR to RGB Domain Translation Using Asymmetric Cycle Generative Adversarial Networks. IEEE Access, 2019, 7, 112459-112469.	4.2	30

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37	Weighted Chroma Downsampling and Luma-Referenced Chroma Upsampling for HDR/WCG Video Coding. IEEE Access, 2019, 7, 55237-55247.	4.2	0
38	Unsupervised Person Re-identification Using Reliable and Soft Labels. , 2019, , .		1
39	Alternately Guided Depth Super-resolution Using Weighted Least Squares and Zero-order Reverse Filtering. , 2019, , .		3
40	SPFEMD: Super-pixel Based Finger Earth Mover's Distance for Hand Gesture Recognition. , 2019, , .		3
41	Part-Level Convolutional Neural Networks for Pedestrian Detection Using Saliency and Boundary Box Alignment. IEEE Access, 2019, 7, 23027-23037.	4.2	10
42	Bi-Directional Depth Propagation for 2D-to-3D Conversion with Color/Depth-Based Superpixel Segmentation. , 2019, , .		0
43	Deep feature embedding learning for person re-identification based on lifted structured loss. Multimedia Tools and Applications, 2019, 78, 5863-5880.	3.9	11
44	Single Image Reflection Removal Using Convolutional Neural Networks. IEEE Transactions on Image Processing, 2019, 28, 1954-1966.	9.8	30
45	Adaptive perceptual quantizer for high dynamic range video compression. Journal of Visual Communication and Image Representation, 2019, 58, 25-36.	2.8	4
46	DCSR: Dilated Convolutions for Single Image Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 1625-1635.	9.8	121
47	Adaptive tone mapping for display enhancement under ambient light using constrained optimization. Displays, 2019, 56, 11-22.	3.7	9
48	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
49	Visual saliency estimation using constraints. Neurocomputing, 2018, 290, 1-11.	5.9	4
50	Fast Fourier Transform Networks for Object Tracking Based on Correlation Filter. IEEE Access, 2018, 6, 6594-6601.	4.2	5
51	Automatic Contrast-Limited Adaptive Histogram Equalization With Dual Gamma Correction. IEEE Access, 2018, 6, 11782-11792.	4.2	160
52	Perceptual Enhancement of Low Light Images Based on Two-Step Noise Suppression. IEEE Access, 2018, 6, 7005-7018.	4.2	27
53	Readability Enhancement of Displayed Images Under Ambient Light. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1481-1496.	8.3	10
54	Weighted Chroma Downsampling and Luma-Referenced Chroma Upsampling for HDR/WCG Video Coding. , 2018, , .		1

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55	Automatic Segmentation and Cardiopathy Classification in Cardiac Mri Images Based on Deep Neural Networks. , 2018, , .		17
56	Single Depth Image Super-Resolution Using Convolutional Neural Networks. , 2018, , .		10
57	Multi-Spectral Fusion and Denoising of RGB and NIR Images Using Multi-Scale Wavelet Analysis. , 2018, , .		4
58	High-Quality Virtual View Synthesis for Light Field Cameras Using Multi-Loss Convolutional Neural Networks. , 2018, , .		2
59	TV-SVM: Support Vector Machine with Total Variational Regularization. , 2018, , .		2
60	Patch-Based Stereo Matching Using 3D Convolutional Neural Networks. , 2018, , .		5
61	Fully Convolutional Siamese Fusion Networks for Object Tracking. , 2018, , .		79
62	Intensity-Guided Depth Upsampling Using Edge Sparsity and Weighted <tex>L_{0}</tex> Gradient Minimization. , 2018, , .		2
63	Deep Feature Embedding Learning for Person Re-Identification Using Lifted Structured Loss. , 2018, , .		3
64	Retinex-Based Perceptual Contrast Enhancement in Images Using Luminance Adaptation. IEEE Access, 2018, 6, 61277-61286.	4.2	45
65	Low Light Image Denoising Based on Poisson Noise Model and Weighted TV Regularization. , 2018, , .		5
66	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:mr gradient minimization. Journal of Visual Communication and Image Representation, 2018, 55, 449-456.	2.8	4
67	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
68	Perceptually Optimized Enhancement of Contrast and Color in Images. IEEE Access, 2018, 6, 36132-36142.	4.2	16
69	Perceptually motivated fast coding unit size decision for HEVC intracoding based on visual regularity. Journal of Electronic Imaging, 2018, 27, 1.	0.9	1
70	Perceptual multi-exposure image fusion with overall image quality index and local saturation. Multimedia Systems, 2017, 23, 239-250.	4.7	16
71	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
72	Perceptual stereoscopic video coding using disparity just-noticeable-distortion model. Journal of Visual Communication and Image Representation, 2017, 48, 195-204.	2.8	2

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73	Low light image enhancement based on two-step noise suppression. , 2017, , .		23
74	Complex Form of Local Orientation Plane for Visual Object Tracking. IEEE Access, 2017, 5, 21597-21604.	4.2	5
75	Surrounding adaptive tone mapping in displayed images under ambient light. , 2017, , .		3
76	Retinex-based perceptual contrast enhancement in images using luminance adaptation. , 2017, , .		13
77	Part-level fully convolutional networks for pedestrian detection. , 2017, , .		3
78	Low light image enhancement with dual-tree complex wavelet transform. Journal of Visual Communication and Image Representation, 2017, 42, 28-36.	2.8	40
79	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
80	Boundary-Preserving Depth Upsampling Without Texture Copying Artifacts and Holes. , 2017, , .		1
81	Naturalness-preserved tone mapping in images based on perceptual quantization. , 2017, , .		5
82	Comp-LOP: Complex form of local orientation plane for object tracking. , 2017, , .		1
83	Variational fusion of time-of-flight and stereo data using edge selective joint filtering. , 2017, , .		3
84	Interaction-free hand segmentation using kinect camera. , 2017, , .		2
85	Moment-Based Dense Correspondence Matching Robust to Image Variation. , 2017, , .		0
86	Readability Enhancement of Low Light Videos Based on Discrete Wavelet Transform. , 2017, , .		5
87	Adaptive Quantization-Based HDR Video Coding with HEVC Main 10 Profile. , 2017, , .		0
88	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
89	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
90	Adaptive enhancement of luminance and details in images under ambient light. , 2016, , .		1

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91	Super‑speed up robust features image geometrical registration algorithm. IET Image Processing, 2016, 10, 848-864.	2.5	5
92	Color-guided boundary-preserving depth upsampling based on L<inf>0</inf> gradient minimization. , 2016, , .		1
93	Structure tensor-based WLS filter for adaptive smoothing. , 2016, , .		0
94	Adaptive PQ: Adaptive perceptual quantizer for HEVC main 10 profile-based HDR video coding. , 2016, , .		7
95	Backward compatible opto-electrical transfer function for HDR video coding based on rational quantization. , 2016, , .		1
96	Tone-preserving contrast enhancement in images using rational tone mapping and constrained optimization. , 2016, , .		4
97	HEVC encoder optimization for HDR video coding based on perceptual block merging. , 2016, , .		2
98	Backlight scaled contrast enhancement for liquid crystal displays using image key-based compression. , 2016, , .		0
99	Perceptual contrast enhancement of dark images based on textural coefficients. , 2016, , .		4
100	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
101	SQI-based illumination normalization for face recognition based on discrete wavelet transform. , 2016, , .		3
102	Power constrained contrast enhancement based on brightness compensated contrast-tone mapping operation. Journal of Electronic Imaging, 2016, 25, 053027.	0.9	0
103	Rapid learning-based video stereolization using graphic processing unit acceleration. Journal of Electronic Imaging, 2016, 25, 053021.	0.9	1
104	Readability enhancement of low light images based on dual-tree complex wavelet transform. , 2016, , .		9
105	Interactive Image Segmentation Using Adaptive Constraint Propagation. IEEE Transactions on Image Processing, 2016, 25, 1301-1311.	9.8	42
106	Reliability-Based Discontinuity-Preserving Stereo Matching. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1970-1975.	8.3	4
107	Image-guided depth propagation using superpixel matching and adaptive autoregressive model. , 2015, , .		3
108	Detail-preserving tone mapping for low dynamic range displays with adaptive gamma correction. , 2015, , .		3

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109	Randomized Ring-Partition Fingerprinting with Dithered Lattice Vector Quantization. , 2015, , .		0
110	Power-constrained backlight scaling using brightness compensated contrast-tone mapping operation. , 2015, , .		1
111	Perceptual block merging for quadtree-based partitioning in HEVC using disorderly concealment effect. , 2015, , .		1
112	Superpixel matching-based depth propagation for 2D-to-3D conversion with joint bilateral filtering. , 2015, , .		5
113	Semi-supervised Bi-dictionary Learning Using Smooth Representation-Based Label Propagation. , 2015, , .		1
114	Point-cut: Fixation point-based image segmentation using random walk model. , 2015, , .		4
115	Visual comfort assessment for stereoscopic 3D images based on salient discomfort regions. , 2015, , .		5
116	Perceptual backlight scaling for low power liquid crystal displays based on visual saliency. , 2015, , .		2
117	Perceptual rate distortion optimisation for video coding using free‐energy principle. Electronics Letters, 2015, 51, 1656-1658.	1.0	9
118	Real-Time Depth-Image-Based Rendering on GPU. , 2015, , .		5
119	Combining Visual Saliency and Pattern Masking for Image Steganography. , 2015, , .		2
120	Interactive image retrieval using constraints. Neurocomputing, 2015, 161, 210-219.	5.9	11
121	Content adaptive video denoising based on human visual perception. Journal of Visual Communication and Image Representation, 2015, 31, 14-25.	2.8	2
122	Visual comfort assessment in stereoscopic 3D images using salient object disparity. Electronics Letters, 2015, 51, 482-484.	1.0	6
123	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
124	Visual saliency estimation through label propagation. Electronics Letters, 2015, 51, 1073-1075.	1.0	2
125	Adaptive Constraint Propagation for Semi-Supervised Kernel Matrix Learning. Neural Processing Letters, 2015, 41, 107-123.	3.2	7
126	Learning to Rank with Ensemble Ranking SVM. Neural Processing Letters, 2015, 42, 703-714.	3.2	12

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127	2D to 3D conversion with motion-type adaptive depth estimation. Multimedia Systems, 2015, 21, 451-464.	4.7	6
128	Example-Based Video Stereolization With Foreground Segmentation and Depth Propagation. IEEE Transactions on Multimedia, 2014, 16, 1905-1914.	7.2	14
129	Chrominance justâ€noticeableâ€distortion model based on human colour perception. Electronics Letters, 2014, 50, 1587-1589.	1.0	2
130	Dictionary based hole filling with assistance of depth. , 2014, , .		2
131	Automatic image segmentation using constraint learning and propagation. , 2014, 24, 106-116.		5
132	Curvature preserving image super-resolution with gradient-consistency-anisotropic-regularization prior. Signal Processing: Image Communication, 2014, 29, 1211-1222.	3.2	4
133	Content adaptive image superresolution with gradient consistency and anisotropic regularization. , 2014, , .		1
134	Parallelization of deconvolution based image super-resolution on multi-core CPU platform. , 2014, , .		0
135	Interactive image segmentation via kernel propagation. Pattern Recognition, 2014, 47, 2745-2755.	8.1	13
136	Class-Discriminative Kernel Sparse Representation-Based Classification Using Multi-Objective Optimization. IEEE Transactions on Signal Processing, 2013, 61, 4416-4427.	5.3	20
137	Improving dictionary based image super-resolution with nonlocal total variation regularization. , 2013, , .		0
138	Eye detection under varying illumination using the retinex theory. Neurocomputing, 2013, 113, 130-137.	5.9	27
139	High dynamic range imaging on mobile devices using fusion of multiexposure images. Optical Engineering, 2013, 52, 102004.	1.0	10
140	Blocking Artifact Reduction in DIBR Using an Overcomplete 3D Dictionary. Lecture Notes in Computer Science, 2013, , 283-294.	1.3	0
141	Toward high-quality image communications: inverse problems in image processing. Optical Engineering, 2012, 51, 100901-1.	1.0	2
142	A novel approach to motion segmentation based on gamma distribution. AEU - International Journal of Electronics and Communications, 2012, 66, 235-238.	2.9	1
143	Image deblocking via sparse representation. Signal Processing: Image Communication, 2012, 27, 663-677.	3.2	99
144	Illumination Invariant Eye Detection in Facial Images Based on the Retinex Theory. Lecture Notes in Computer Science, 2012, , 175-183.	1.3	1

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145	Image segmentation via manifold spectral clustering. , 2011, , .		0
146	Position-Patch Based Face Hallucination Using Convex Optimization. IEEE Signal Processing Letters, 2011, 18, 367-370.	3.6	210
147	Disparity-map-based rendering for mobile 3D TVs. IEEE Transactions on Consumer Electronics, 2011, 57, 1171-1175.	3.6	6
148	Ringing artifact reduction of JPEG images using a SGLI prior. , 2011, , .		0
149	Ensemble Ranking SVM for learning to rank. , 2011, , .		2
150	Spatial-gradient-local-inhomogeneity: an efficient image-denoising prior. Journal of Electronic Imaging, 2010, 19, 033005.	0.9	6
151	Novel Bayesian deringing method â€˜in image interpolation and compression â€˜using a SGLI prior. Optics Express, 2010, 18, 7138.	3.4	8
152	A stroke filter and its application to text localization. Pattern Recognition Letters, 2009, 30, 114-122.	4.2	61
153	Accurate text localization in images based on SVM output scores. Image and Vision Computing, 2009, 27, 1295-1301.	4.5	30
154	A new approach for text segmentation using a stroke filter. Signal Processing, 2008, 88, 1907-1916.	3.7	30
155	3D DMB Player and Its Reliable 3D Services in T-DMB Systems. , 0, , 434-450.		0