

Nam Ik Cho

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155 papers	1,475 citations	19 h-index	31 g-index
208 ext. papers	1,936 ext. citations	3.3 avg, IF	5.05 L-index

#	Paper	IF	Citations
155	Flexible Style Image Super-Resolution Using Conditional Objective. <i>IEEE Access</i> , 2022 , 10, 9774-9792	3.5	
154	Deep-learning and graph-based approach to table structure recognition. <i>Multimedia Tools and Applications</i> , 2022 , 81, 5827-5848	2.5	0
153	Multi-Branch Neural Architecture Search for Lightweight Image Super-Resolution. <i>IEEE Access</i> , 2021 , 9, 153633-153646	3.5	1
152	Neural Architecture Search for Image Super-Resolution Using Densely Constructed Search Space: DeCoNAS 2021 ,		3
151	User-Independent Gaze Estimation by Extracting Pupil Parameter and Its Mapping to the Gaze Angle 2021 ,		1
150	Lossless Image Compression by Joint Prediction of Pixel and Context Using Duplex Neural Networks. <i>IEEE Access</i> , 2021 , 9, 86632-86645	3.5	2
149	Multistage Probabilistic Approach for the Localization of Cephalometric Landmarks. <i>IEEE Access</i> , 2021 , 9, 21306-21314	3.5	0
148	Dual Path Denoising Network for Real Photographic Noise. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 860-864	3.5	4
147	AGARNet: Adaptively Gated JPEG Compression Artifacts Removal Network for a Wide Range Quality Factor. <i>IEEE Access</i> , 2020 , 8, 20160-20170	3.5	10
146	Lightweight Single Image Super-Resolution With Multi-Scale Spatial Attention Networks. <i>IEEE Access</i> , 2020 , 8, 35383-35391	3.5	5
145	Noise-Robust Pupil Center Detection Through CNN-Based Segmentation With Shape-Prior Loss. <i>IEEE Access</i> , 2020 , 8, 64739-64749	3.5	9
144	A Pseudo-Blind Convolutional Neural Network for the Reduction of Compression Artifacts. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 1121-1135	6.4	15
143	Multi-Lingual Optical Character Recognition System Using the Reinforcement Learning of Character Segmenter. <i>IEEE Access</i> , 2020 , 8, 174437-174448	3.5	6
142	Exposure-Structure Blending Network for High Dynamic Range Imaging of Dynamic Scenes. <i>IEEE Access</i> , 2020 , 8, 117428-117438	3.5	2
141	Channel-Wise Progressive Learning For Lossless Image Compression 2020 ,		2
140	Handwritten Text Segmentation via End-to-End Learning of Convolutional Neural Networks. <i>Multimedia Tools and Applications</i> , 2020 , 79, 32137-32150	2.5	3
139	PuVAE: A Variational Autoencoder to Purify Adversarial Examples. <i>IEEE Access</i> , 2019 , 7, 126582-126593	3.5	17

138	Deep Clustering and Block Hashing Network for Face Image Retrieval. <i>Lecture Notes in Computer Science</i> , 2019 , 325-339	0.9	3
137	Adaptively Tuning a Convolutional Neural Network by Gate Process for Image Denoising. <i>IEEE Access</i> , 2019 , 7, 63447-63456	3.5	11
136	Generation of high dynamic range illumination from a single image for the enhancement of undesirably illuminated images. <i>Multimedia Tools and Applications</i> , 2019 , 78, 20263-20283	2.5	8
135	GF-CapsNet: Using Gabor Jet and Capsule Networks for Facial Age, Gender, and Expression Recognition 2019 ,		7
134	Natural and Realistic Single Image Super-Resolution With Explicit Natural Manifold Discrimination 2019 ,		43
133	Joint High Dynamic Range Imaging and Super-Resolution From a Single Image. <i>IEEE Access</i> , 2019 , 7, 177423-177437	4.3	17
132	High Dynamic Range and Super-Resolution Imaging From a Single Image. <i>IEEE Access</i> , 2018 , 6, 10966-10978	3.8	15
131	Co-Salient Object Detection Based on Deep Saliency Networks and Seed Propagation Over an Integrated Graph. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 5866-5879	8.7	11
130	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2018 , 26, 855-866	2.6	3
129	Multi-scale Recurrent Encoder-Decoder Network for Dense Temporal Classification 2018 ,		7
128	A Multi-Exposure Image Fusion Based on the Adaptive Weights Reflecting the Relative Pixel Intensity and Global Gradient 2018 ,		13
127	Reduction of Video Compression Artifacts Based on Deep Temporal Networks. <i>IEEE Access</i> , 2018 , 6, 63094-63106	3.5	16
126	P-26: Reconstruction of Wide Range Exposures and Diverse High Dynamic Range Image Styles for Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1292-1295	0.5	
125	Age and gender classification using wide convolutional neural network and Gabor filter 2018 ,		18
124	Saliency detection based on seed propagation in a multilayer graph. <i>Multimedia Tools and Applications</i> , 2017 , 76, 2111-2129	2.5	14
123	23-1: HDR Imaging by Generating Multi-Exposures from a Single Image for HDR/LDR Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 314-317	0.5	
122	Regional deep feature aggregation for image retrieval 2017 ,		4
121	Skin detection based on multi-seed propagation in a multi-layer graph for regional and color consistency 2017 ,		6

120	Rectification of planar targets using line segments. <i>Machine Vision and Applications</i> , 2017 , 28, 91-100	2.8	4
119	Textline detection in degraded historical document images. <i>Eurasip Journal on Image and Video Processing</i> , 2017 , 2017,	2.5	8
118	Co-saliency detection via seed propagation over the integrated graph with a cluster layer 2017 ,		1
117	Robust Document Image Dewarping Method Using Text-Lines and Line Segments 2017 ,		11
116	Optimal Power Allocation of Relay Sensor Node Capable of Energy Harvesting in Cooperative Cognitive Radio Network. <i>Sensors</i> , 2017 , 17,	3.8	4
115	Multiple face tracking method in the wild using color histogram features 2017 ,		2
114	A static video summarization method based on the sparse coding of features and representativeness of frames. <i>Eurasip Journal on Image and Video Processing</i> , 2016 , 2017,	2.5	11
113	Human visual perception-based localized backlight scaling method for high dynamic range LCDs. <i>Journal of the Society for Information Display</i> , 2016 , 24, 471-486	2.1	6
112	Robust skew estimation using straight lines in document images. <i>Journal of Electronic Imaging</i> , 2016 , 25, 033014	0.7	3
111	P-71: Encoding Saliency Information in Video Sequences and Its Application to Backlight Scaling of High Dynamic Range (HDR) LCDs. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1402-1405	0.5	105
110	Gaze estimation using 3-D eyeball model and eyelid shapes 2016 ,		2
109	Fast and simple text replacement algorithm for text-based augmented reality 2016 ,		1
108	Document dewarping via text-line based optimization. <i>Pattern Recognition</i> , 2015 , 48, 3600-3614	7.7	26
107	Bilateral image denoising in the Laplacian subbands. <i>Eurasip Journal on Image and Video Processing</i> , 2015 , 2015,	2.5	1
106	Efficient Unwrap Representation of Faces for Video Editing. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 1718-1722	3.1	1722
105	Unified framework for automatic image stitching and rectification. <i>Journal of Electronic Imaging</i> , 2015 , 24, 033007	0.7	3
104	Consumer video summarization based on image quality and representativeness measure 2015 ,		1
103	Junction-based table detection in camera-captured document images. <i>International Journal on Document Analysis and Recognition</i> , 2015 , 18, 47-57	3.8	15

102	Word Segmentation Method for Handwritten Documents based on Structured Learning. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 1161-1165	3.2	25
101	Language-Independent Text-Line Extraction Algorithm for Handwritten Documents. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 1115-1119	3.2	32
100	Hierarchical prediction and context adaptive coding for lossless color image compression. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 445-9	8.7	31
99	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 1040-1046	6.4	18
98	Probabilistic motion pixel detection for the reduction of ghost artifacts in high dynamic range images from multiple exposures. <i>Eurasip Journal on Image and Video Processing</i> , 2014 , 2014,	2.5	10
97	Image registration algorithm based on regular sparse correspondences and SIFT 2014 ,		1
96	Wavelet-domain satellite image fusion based on a generalized fusion equation. <i>Journal of Applied Remote Sensing</i> , 2014 , 8, 080599	1.4	11
95	Content-based image retrieval using color features of salient regions 2014 ,		9
94	Weighted gradient domain image processing problems and their iterative solutions. <i>Eurasip Journal on Image and Video Processing</i> , 2013 , 2013,	2.5	2
93	Single image dehazing based on reliability map of dark channel prior 2013 ,		7
92	A dehazing algorithm using dark channel prior and contrast enhancement 2013 ,		4
91	Approach to direct coning/sculling error compensation based on the sinusoidal modelling of IMU signal. <i>IET Radar, Sonar and Navigation</i> , 2013 , 7, 527-534	1.4	14
90	Skew estimation of natural images based on a salient line detector. <i>Journal of Electronic Imaging</i> , 2013 , 22, 013020	0.7	14
89	Human segmentation algorithm for real-time video-call applications 2013 ,		2
88	Luminance adapted skin color modeling for the robust detection of skin areas 2013 ,		6
87	Text-line extraction in handwritten Chinese documents based on an energy minimization framework. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 1169-75	8.7	31
86	Discrimination and description of repetitive patterns for enhancing the performance of feature-based recognition. <i>Image and Vision Computing</i> , 2012 , 30, 817-828	3.7	3
85	Image registration by using a descriptor for repetitive patterns 2012 ,		2

84	Fast text line extraction in document images 2012 ,		1
83	A lossless color image compression method based on a new reversible color transform 2012 ,		2
82	Reduction of ghost effect in exposure fusion by detecting the ghost pixels in saturated and non-saturated regions 2012 ,		3
81	Estimating the coordinates of pillars and posts in the parking lots for intelligent parking assist system 2012 ,		1
80	High dynamic range (HDR) imaging by gradient domain fusion 2011 ,		1
79	Feature-based image registration algorithm for image stitching applications on mobile devices. <i>IEEE Transactions on Consumer Electronics</i> , 2011 , 57, 1303-1310	4.8	5
78	Real-time panorama canvas of natural images. <i>IEEE Transactions on Consumer Electronics</i> , 2011 , 57, 1961-1968	4.1	11
77	Design of interchannel MRF model for probabilistic multichannel image processing. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 601-11	8.7	1
76	A New Overlap Save Algorithm for Fast Block Convolution and Its Implementation Using FFT. <i>Journal of Signal Processing Systems</i> , 2011 , 63, 143-152	1.4	2
75	A new image denoising method based on the wavelet domain nonlocal means filtering 2011 ,		2
74	Color filter array demosaicking using optimized edge direction map 2011 ,		1
73	Discrimination and description of repetitive patterns for enhancing object recognition performance 2011 ,		1
72	Improved H.264/AVC lossless intra compression using multiple partition prediction for 4x4 intra block 2011 ,		2
71	A multi-exposure image fusion algorithm without ghost effect 2011 ,		18
70	A Color to Grayscale Conversion Considering Local and Global Contrast. <i>Lecture Notes in Computer Science</i> , 2011 , 513-524	0.9	12
69	H.264/AVC based color filter array compression with inter-channel prediction model 2010 ,		3
68	A video object segmentation algorithm based on the feature learning and shape tracking 2010 ,		1
67	State Estimation in a Document Image and Its Application in Text Block Identification and Text Line Extraction. <i>Lecture Notes in Computer Science</i> , 2010 , 421-434	0.9	13

66	Rectification of figures and photos in document images using bounding box interface 2010 ,		4
65	. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 1780-1793	4.8	27
64	Low bit rates video coding using hybrid frame resolutions. <i>IEEE Transactions on Consumer Electronics</i> , 2010 , 56, 770-776	4.8	2
63	A new image projection method for panoramic image stitching 2010 ,		1
62	Fast lane detection & tracking based on Hough transform with reduced memory requirement 2010 ,		19
61	Image segmentation algorithms based on the machine learning of features. <i>Pattern Recognition Letters</i> , 2010 , 31, 2325-2336	4.7	16
60	A motion vector prediction method for multi-view video coding. <i>Journal of Visual Communication and Image Representation</i> , 2010 , 21, 677-681	2.7	2
59	. <i>IEEE Transactions on Communications</i> , 2010 , 58, 986-996	6.9	56
58	An overlap save algorithm for block convolution with reduced complexity 2009 ,		1
57	Feature Based Binarization of Document Images Degraded by Uneven Light Condition 2009 ,		18
56	An unsupervised image segmentation algorithm based on the machine learning of appropriate features 2009 ,		2
55	Stereo matching using hierarchical belief propagation along ambiguity gradient 2009 ,		2
54	Intra prediction method based on the linear relationship between the channels for YUV 4:2:0 intra coding 2009 ,		2
53	Automatic Defect Classification Using Frequency and Spatial Features in a Boosting Scheme. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 374-377	3.2	
52	DCT-Based Embedded Image Compression With a New Coefficient Sorting Method. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 410-413	3.2	10
51	Composition of a dewarped and enhanced document image from two view images. <i>IEEE Transactions on Image Processing</i> , 2009 , 18, 1551-62	8.7	30
50	Eliminating structure misalignments using robust matching and image editing based on seam carving 2009 ,		1
49	A new method to find an optimal warping function in image stitching 2009 ,		4

48	Embedded Panoramic Mosaic System Using Auto-Shot Interface. <i>IEEE Transactions on Consumer Electronics</i> , 2008 , 54, 16-24	4.8	12
47	Design of Multiplierless Lattice QMF: Structure and Algorithm Development. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2008 , 55, 173-177	3.5	10
46	A low-complexity near-ML decoding technique via reduced dimension list stack algorithm 2008 ,		1
45	Boosting image segmentation 2008 ,		1
44	Non-rigid image registration based on the globally optimized correspondences 2008 ,		1
43	A Motion Vector Prediction Method For Multi-view Video Coding 2008 ,		1
42	Panoramic mosaic system for mobile devices 2008 ,		2
41	Time varying forgetting factor for the noise estimation in multi-channel noise reduction. <i>Applied Acoustics</i> , 2008 , 69, 751-754	3.1	2
40	Frequency domain multi-channel noise reduction based on the spatial subspace decomposition and noise eigenvalue modification. <i>Speech Communication</i> , 2008 , 50, 382-391	2.8	3
39	Low-Power Filtering Via Minimum Power Soft Error Cancellation. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 5084-5096	4.8	19
38	Bayesian object extraction from uncalibrated image pairs. <i>Signal Processing: Image Communication</i> , 2007 , 22, 866-876	2.8	
37	Stereo Matching using Multi-Directional Dynamic Programming and Edge Orientations. <i>Proceedings International Conference on Image Processing</i> , 2007 ,	1.6	2
36	Panorama Mosaic Optimization for Mobile Camera Systems. <i>IEEE Transactions on Consumer Electronics</i> , 2007 , 53, 1217-1225	4.8	41
35	A New EDI-based Deinterlacing Algorithm. <i>IEEE Transactions on Consumer Electronics</i> , 2007 , 53, 1494-1499	4.8	4
34	A requantization algorithm for the transcoding of JPEG images. <i>Signal Processing: Image Communication</i> , 2006 , 21, 13-21	2.8	2
33	Hybrid multiple description video coding using optimal DCT coefficient splitting and SD/MD switching. <i>Signal Processing: Image Communication</i> , 2006 , 21, 293-305	2.8	2
32	Stochastic Approach to Separate Diffuse and Specular Reflections 2006 ,		4
31	Interpolation of Multi-Spectral Images Inwavelet Domain for Satellite Image Fusion 2006 ,		2

30	Bayesian Image Interpolation Based on the Learning and Estimation of Higher Bandwavelet Coefficients 2006 ,		3
29	Video Transcoding for Packet Loss Resilience Based on the Multiple Descriptions 2006 ,		4
28	Design of signed powers-of-two coefficient perfect reconstruction QMF Bank using CORDIC algorithms. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 1254-1265		21
27	Blocking artifact reduction method based on non-iterative POCS in the DCT domain 2005 ,		1
26	Block convolution with arbitrary delays using fast Fourier transform 2005 ,		1
25	A fast algorithm for the conversion of DCT coefficients to H.264 transform coefficients 2005 ,		1
24	Fixed-point error analysis of CORDIC processor based on the variance propagation formula. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2004 , 51, 573-584		24
23	Watermarking Algorithms for 3D NURBS Graphic Data. <i>Eurasip Journal on Advances in Signal Processing</i> , 2004 , 2004, 1	1.9	21
22	Rotation-invariant face detection using angular projections. <i>Electronics Letters</i> , 2004 , 40, 726	1.1	6
21	Directional regularisation for constrained iterative image restoration. <i>Electronics Letters</i> , 2003 , 39, 1642	1.1	7
20	Rate-distortion optimization of the image compression algorithm based on the warped discrete cosine transform. <i>Signal Processing</i> , 2003 , 83, 1919-1928	4.4	3
19	Relevance feedback in content-based image retrieval system by selective region growing in the feature space. <i>Signal Processing: Image Communication</i> , 2003 , 18, 787-799	2.8	5
18	Suppression of narrow-band interference in DS-spread spectrum systems using adaptive IIR notch filter. <i>Signal Processing</i> , 2002 , 82, 2003-2013	4.4	39
17	Scene change detection by feature extraction from strong edge blocks 2002 , 4671, 784		1
16	Reduction of blocking artifacts by cepstral filtering. <i>Signal Processing</i> , 2001 , 81, 633-642	4.4	1
15	Warped discrete cosine transform and its application in image compression. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2000 , 10, 1364-1373	6.4	29
14	An adaptive quantization algorithm for video coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 1999 , 9, 527-535	6.4	2
13	Design and Implementation of Format Conversion Filters for MPEG-4. <i>Journal of Visual Communication and Image Representation</i> , 1998 , 9, 101-108	2.7	0

12	Optimal design of finite precision FIR filters using linear programming with reduced constraints. <i>IEEE Transactions on Signal Processing</i> , 1998 , 46, 195-199	4.8	11
11	On the performance analysis and applications of the subband adaptive digital filter. <i>Signal Processing</i> , 1995 , 41, 295-307	4.4	14
10	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1995 , 42, 186-195		18
9	. <i>IEEE Transactions on Signal Processing</i> , 1992 , 40, 2166-2173	4.8	47
8	. <i>IEEE Transactions on Circuits and Systems</i> , 1991 , 38, 297-305		126
7	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1990 , 38, 121-127		44
6	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1989 , 37, 585-589		62
5	Design of 2K/4K/8K-point FFT processor based on CORDIC algorithm in OFDM receiver		2
4	Watermarking for 3D NURBS graphic data		1
3	Robust watermarking of 3D mesh models		3
2	Narrow-band interference suppression in direct sequence spread spectrum systems using a lattice IIR notch filter		3
1	Strain Analysis of Multi-Phase Steel Using In-Situ EBSD Tensile Testing and Digital Image Correlation. <i>Metals and Materials International</i> ,1	2.4	0