Sung-Jea Ko

List of Publications by Year
in descending order

130	1,326	430442	454577
papers	citations	18	30
		h-index	g-index

130	130	130	1224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A New Histogram Modification Based Reversible Data Hiding Algorithm Considering the Human Visual System. IEEE Signal Processing Letters, 2011, 18, 95-98.	2.1	93
2	PEPSI : Fast Image Inpainting With Parallel Decoding Network. , 2019, , .		85
3	PEPSI++: Fast and Lightweight Network for Image Inpainting. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 252-265.	7.2	63
4	Eyeball model-based iris center localization for visible image-based eye-gaze tracking systems. IEEE Transactions on Consumer Electronics, 2013, 59, 415-421.	3.0	61
5	A novel image interpolation method using the bilateral filter. IEEE Transactions on Consumer Electronics, 2010, 56, 175-181.	3.0	57
6	Robust people counting system based on sensor fusion. IEEE Transactions on Consumer Electronics, 2012, 58, 1013-1021.	3.0	44
7	Frame rate up-conversion using perspective transform. IEEE Transactions on Consumer Electronics, 2006, 52, 975-982.	3.0	43
8	Fast Mode Decision Using All-Zero Block Detection for Fidelity and Spatial Scalable Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 201-206.	5.6	42
9	Feature point classification based global motion estimation for video stabilization. IEEE Transactions on Consumer Electronics, 2013, 59, 267-272.	3.0	39
10	A novel obstacle detection method based on deformable grid for the visually impaired. IEEE Transactions on Consumer Electronics, 2015, 61, 376-383.	3.0	33
11	A novel contrast enhancement forensics based on convolutional neural networks. Signal Processing: Image Communication, 2018, 63, 149-160.	1.8	33
12	A robust obstacle detection method for robotic vacuum cleaners. IEEE Transactions on Consumer Electronics, 2014, 60, 587-595.	3.0	30
13	An enhanced obstacle avoidance method for the visually impaired using deformable grid. IEEE Transactions on Consumer Electronics, 2017, 63, 169-177.	3.0	28
14	Deep learning for end-to-end kidney cancer diagnosis on multi-phase abdominal computed tomography. Npj Precision Oncology, 2021, 5, 54.	2.3	28
15	A Statistical Approach for Fast Mode Decision in Scalable Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1915-1920.	5.6	23
16	A novel training based auto-focus for mobile-phone cameras. IEEE Transactions on Consumer Electronics, 2011, 57, 232-238.	3.0	23
17	Spatial color histogram based center voting method for subsequent object tracking and segmentation. Image and Vision Computing, 2011, 29, 850-860.	2.7	23
18	High-dimensional feature extraction using bit-plane decomposition of local binary patterns for robust face recognition. Journal of Visual Communication and Image Representation, 2017, 45, 11-19.	1.7	20

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19	Wavelet based seam carving for content-aware image resizing. , 2009, , .		19
20	High dynamic range image tone mapping based on asymmetric model of retinal adaptation. Signal Processing: Image Communication, 2018, 68, 120-128.	1.8	19
21	A Novel Multiple Image Deblurring Technique Using Fuzzy Projection onto Convex Sets. IEEE Signal Processing Letters, 2009, 16, 192-195.	2.1	18
22	Unsupervised Deep Contrast Enhancement With Power Constraint for OLED Displays. IEEE Transactions on Image Processing, 2020, 29, 2834-2844.	6.0	18
23	Measurement Based Channel-Adaptive Video Streaming for Mobile Devices over Mobile WiMAX. IEEE Transactions on Consumer Electronics, 2008, 54, 171-178.	3.0	17
24	An edge-guided image interpolation method using Taylor series approximation. IEEE Transactions on Consumer Electronics, 2016, 62, 159-165.	3.0	17
25	Histogram partition based gamma correction for image contrast enhancement. , 2012, , .		16
26	Fast human detection using selective block-based HOG-LBP. , 2012, , .		16
27	Content-preserving video stitching method for multi-camera systems. IEEE Transactions on Consumer Electronics, 2017, 63, 109-116.	3.0	16
28	Random projection-based partial feature extraction for robust face recognition. Neurocomputing, 2015, 149, 1232-1244.	3.5	14
29	Stereo Vision-Based High Dynamic Range Imaging Using Differently-Exposed Image Pair. Sensors, 2017, 17, 1473.	2.1	14
30	W-Net: Two-Stage U-Net With Misaligned Data for Raw-to-RGB Mapping. , 2019, , .		14
31	Fast Intra Prediction Mode Selection Scheme Using Temporal Correlation in H.264. , 2005, , .		12
32	A complexity scalable H.264 decoder with downsizing capability for mobile devices. IEEE Transactions on Consumer Electronics, 2010, 56, 1025-1033.	3.0	12
33	Improved remote gaze estimation using corneal reflection-adaptive geometric transforms. Optical Engineering, 2014, 53, 053112.	0.5	12
34	Depth Map Based Image Enhancement Using Color Stereopsis. IEEE Signal Processing Letters, 2012, 19, 303-306.	2.1	11
35	LBP-ferns-based feature extraction for robust facial recognition. IEEE Transactions on Consumer Electronics, 2016, 62, 446-453.	3.0	11
36	Fast and Accurate 3D Hand Pose Estimation via Recurrent Neural Network for Capturing Hand Articulations. IEEE Access, 2020, 8, 114010-114019.	2.6	11

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37	Deep Fashion Recommendation System with Style Feature Decomposition. , 2019, , .		11
38	Video Transmission Adopting Scalable Video Coding over Time-varying Networks. IEEE Transactions on Consumer Electronics, 2006, 52, 689-695.	3.0	10
39	Enhanced frame rate up-conversion method for UHD video. IEEE Transactions on Consumer Electronics, 2010, 56, 1108-1114.	3.0	10
40	Improving the usability of remote eye gaze tracking for human-device interaction. IEEE Transactions on Consumer Electronics, 2014, 60, 493-498.	3.0	10
41	Kernel-Based Structural Binary Pattern Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 1288-1300.	5.6	10
42	Simple Yet Effective Way for Improving the Performance of GAN. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1811-1818.	7.2	10
43	Backlight power reduction using efficient image compensation for mobile devices. IEEE Transactions on Consumer Electronics, 2010, 56, 1972-1978.	3.0	9
44	Depth Enhancement Considering Just Noticeable Difference in Depth. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95-A, 673-675.	0.2	9
45	Video stabilization based on motion segmentation. , 2012, , .		9
46	Face Recognition Using LBP Eigenfaces. IEICE Transactions on Information and Systems, 2014, E97.D, 1930-1932.	0.4	9
47	A novel single IR light based gaze estimation method using virtual glints. IEEE Transactions on Consumer Electronics, 2015, 61, 254-260.	3.0	9
48	Collision detection method using image segmentation for the visually impaired. IEEE Transactions on Consumer Electronics, 2017, 63, 392-400.	3.0	9
49	Contrast Enhancement Using Sensitivity Model-Based Sigmoid Function. IEEE Access, 2019, 7, 161573-161583.	2.6	8
50	Edge-oriented two-step interpolation based on training set. IEEE Transactions on Consumer Electronics, 2010, 56, 1848-1855.	3.0	7
51	A New Human Perception-Based Over-Exposure Detection Method for Color Images. Sensors, 2014, 14, 17159-17173.	2.1	7
52	Simple Yet Effective Way for Improving the Performance of Lossy Image Compression. IEEE Signal Processing Letters, 2020, 27, 530-534.	2.1	7
53	Lightweight Prediction and Boundary Attention-Based Semantic Segmentation for Road Scene Understanding. IEEE Access, 2020, 8, 108449-108460.	2.6	7
54	Quaternary Census Transform Based on the Human Visual System for Stereo Matching. IEEE Access, 2020, 8, 116501-116514.	2.6	7

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55	A Robust Extrinsic Calibration Method for Non-Contact Gaze Tracking in the 3-D Space. IEEE Access, 2018, 6, 48840-48849.	2.6	6
56	Improving the robustness of gaze tracking under unconstrained illumination conditions. Multimedia Tools and Applications, 2020, 79, 20603-20616.	2.6	6
57	Highly Accurate Scale Estimation from Multiple Keyframes Using RANSAC Plane Fitting With a Novel Scoring Method. IEEE Transactions on Vehicular Technology, 2020, 69, 15335-15345.	3.9	6
58	Improved seam carving using a modified energy function based on wavelet decomposition. , 2009, , .		5
59	External Vehicle Positioning System Using Multiple Fish-Eye Surveillance Cameras for Indoor Parking Lots. IEEE Systems Journal, 2020, , 1-12.	2.9	5
60	Detail Restoration and Tone Mapping Networks for X-Ray Security Inspection. IEEE Access, 2020, 8, 197473-197483.	2.6	5
61	Real-time video re-coloring algorithm considering the temporal color consistency for the color-blind. IEEE Transactions on Consumer Electronics, 2012, 58, 721-729.	3.0	4
62	Automatic mura inspection using the principal component analysis for the TFT-LCD panel. , 2014, , .		4
63	Adversarial Context Aggregation Network for Low-Light Image Enhancement. , 2018, , .		4
64	Learning-Based Image Synthesis for Hazardous Object Detection in X-Ray Security Applications. IEEE Access, 2021, 9, 135256-135265.	2.6	4
65	Fast DSP implementation of JPEG2000. , 0, , .		3
66	Video transcoding to support playback at a random location for scalable video coding. IEEE Transactions on Consumer Electronics, 2007, 53, 227-234.	3.0	3
67	Noise-Robust Modulation Identification Method for Adaptive Receiver Based on Software Defined Radio. IEEE Transactions on Consumer Electronics, 2007, 53, 1211-1216.	3.0	3
68	Estimation-Based Interlayer Intra Prediction for Scalable Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1902-1907.	5.6	3
69	Augmented reality with high frame rate for low computational power devices. , 2011, , .		3
70	A saliency based noise reduction method for Digital TV. , 2011, , .		3
71	A novel automatic white balance for image stitching on mobile devices. , 2011, , .		3
72	Collision detection based on scale change of image segments for the visually impaired. , 2015, , .		3

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73	Color image interpolation in the DCT domain using a wavelet-based differential value. Multimedia Tools and Applications, 2018, 77, 21539-21556.	2.6	3
74	A Novel Relative Camera Motion Estimation Algorithm with Applications to Visual Odometry. , 2018, , .		3
75	Single Image Dehazing Based on Weighted Dark Channel. , 2019, , .		3
76	Depth Map Super-Resolution Using Guided Deformable Convolution. IEEE Access, 2021, 9, 66626-66635.	2.6	3
77	Robust Single Image Deblurring Using Gyroscope Sensor. IEEE Access, 2021, 9, 80835-80846.	2.6	3
78	A Novel Transcoding Technique between EVRC and G.729A for Mobile Multimedia Devices. IEEE Transactions on Consumer Electronics, 2007, 53, 885-890.	3.0	2
79	Multi-scale level set based curve evolution for real-time non-rigid object contour tracking. , 2009, , .		2
80	A hybrid method for whole-frame error concealment. , 2009, , .		2
81	An Effective Aggregation Function for Image Denoising Based on Low Rank Matrix Completion. , 2011, , .		2
82	Content-aware 3D image retargeting for mobile devices. , 2011, , .		2
83	Real-time human tracking using fusion sensor for home security robot. , 2012, , .		2
84	An effective pedestrian detection method for driver assistance system. , 2012, , .		2
85	Patch-based over-exposure correction in image. , 2014, , .		2
86	A fast noise-robust interpolation method based on second-order directional-derivatives. IEEE Transactions on Consumer Electronics, 2015, 61, 368-375.	3.0	2
87	A Novel Quality Assessment Method for<?Pub _newline ?>Flat Panel Display Defects. Journal of Display Technology, 2016, 12, 500-505.	1.3	2
88	Split-and-Merge-Based Block Partitioning for High Efficiency Image Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 540-549.	5.6	2
89	An optimization framework for inverse tone mapping using a single low dynamic range image. Signal Processing: Image Communication, 2019, 78, 274-283.	1.8	2
90	Simple But Effective Scale Estimation for Monocular Visual Odometry in Road Driving Scenarios. IEEE Access, 2020, 8, 175891-175903.	2.6	2

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91	Image Compression-Aware Deep Camera ISP Network. IEEE Access, 2021, , 1-1.	2.6	2
92	Simple Yet Effective Way for Improving the Performance of Depth Map Super-Resolution. IEEE Signal Processing Letters, 2020, 27, 2099-2103.	2.1	2
93	Self-Attentive Normalization for Automated Gleason Grading System. , 2020, , .		2
94	Conditional Convolution Projecting Latent Vectors on Condition-Specific Space. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1386-1393.	7.2	2
95	Adaptive blending algorithm for panoramic image construction in mobile multimedia devices. , 2011, , .		1
96	Robust global motion estimation for video stabilization. , 2012, , .		1
97	Novel face recognition method using trend vector for a multimedia album. , 2012, , .		1
98	A novel iris center localization method based on the spherical eyeball rotation model for human-device interaction. , 2013, , .		1
99	Camera-based color calibration method for multiple flat-panel display system. , 2015, , .		1
100	A novel 2-D mapping-based remote eye gaze tracking method using two IR light sources. , 2015, , .		1
101	A second-order derivative-based edge preserving image interpolation. , 2015, , .		1
102	Camera-Based Color Calibration Method for Multiple Flat-Panel Displays Using Smartphone. Journal of Display Technology, 2016, 12, 1777-1784.	1.3	1
103	A novel burn-in potential region detection method using image processing technique. , 2017, , .		1
104	CT-Guided 3D Super-Resolution Method for Left Atrial Model. , 2021, , .		1
105	Compression Artifacts Reduction Using Fusion of Multiple Restoration Networks. IEEE Access, 2021, 9, 66176-66187.	2.6	1
106	Regularized dequantizer for MPEG. , 0, , .		0
107	Regularized dequantizer for MPEG. IEEE Transactions on Consumer Electronics, 2000, 46, 879-886.	3.0	0
108	Bandwidth estimation based video streaming for mobile devices over HSDPA network. , 2009, , .		0

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109	Selective inter-layer residual prediction for SVC-based mobile devices. , 2009, , .		0
110	8.4: Perceptual Quality Assessment for Motion Compensated Frame Interpolation. Digest of Technical Papers SID International Symposium, 2010, 41, 102.	0.1	0
111	Enhanced frame rate up-conversion method for UHD video. , 2010, , .		0
112	Frame-adaptive deblocking filter for H.264/AVC. , 2011, , .		0
113	A gradient saliency based spatio-temporal video noise reduction method for digital TV. IEEE Transactions on Consumer Electronics, 2011, 57, 1288-1294.	3.0	0
114	Car-pose detection using Randomized WLD. , 2011, , .		0
115	Bilateral tangent projection for manifold smoothing. , 2011, , .		0
116	Improved B-Picture Coding Scheme for Next Generation Video Compression. IEICE Transactions on Information and Systems, 2012, E95.D, 2318-2326.	0.4	0
117	Sensor fusion-based people counting system using the active appearance models. , 2013, , .		0
118	Classification based histogram specification framework for image contrast enhancement. , 2014, , .		0
119	An effective phase-unwrapping method for time-of-flight camera based on 2D-Gaussian model. , 2014, , .		0
120	A real-time second-order derivative-based image interpolation. , 2016, , .		0
121	Iterative Image Dehazing Using the Dark Channel Prior. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1904-1906.	0.2	0
122	A novel method to generate a high-quality image by using a stereo camera. , 2018, , .		0
123	Phase Matching Guided Filtering. , 2018, , .		0
124	A novel method to detect the static subtitle using the saliency map. , 2018, , .		0
125	Selective Sampling and Optimal Filtering for Subpixel-Based Image Down-Sampling. IEEE Access, 2019, 7, 124096-124105.	2.6	0
126	Evaluating Parameterization Methods for Convolutional Neural Network (CNN)-Based Image Operators. , 2019, , .		0

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127	A Bandwidth Extension Scheme for G.711 Speech by Embedding Multiple Highband Gains. IEICE Transactions on Communications, 2011, E94-B, 2941-2944.	0.4	0
128	A New Histogram Modification Method for Stereoscopic Image Enhancement. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 2090-2092.	0.2	0
129	Efficient Pyramid-Structured Networks Using Channel Separating Gate. , 2021, , .		0
130	A luminance control method for OLED burn-in prevention using user information. , 2022, , .		0