

# Byung Cheol Song

## List of Publications by Year in descending order

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56  
papers

539  
citations

758635

12  
h-index

713013

21  
g-index

56  
all docs

56  
docs citations

56  
times ranked

454  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-supervised Knowledge Distillation Using Singular Value Decomposition. Lecture Notes in Computer Science, 2018, , 339-354.	1.0	64
2	Video Super-Resolution Algorithm Using Bi-Directional Overlapped Block Motion Compensation and On-the-Fly Dictionary Training. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 274-285.	5.6	55
3	Facial Micro-Expression Recognition Using Two-Dimensional Landmark Feature Maps. IEEE Access, 2020, 8, 121549-121563.	2.6	45
4	Facial Landmark-Based Emotion Recognition via Directed Graph Neural Network. Electronics (Switzerland), 2020, 9, 764.	1.8	38
5	Block Adaptive Inter-Color Compensation Algorithm for RGB 4:4:4 Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 1447-1451.	5.6	35
6	Multi-modal emotion recognition using semi-supervised learning and multiple neural networks in the wild. , 2017, , .		31
7	Real-time purchase behavior recognition system based on deep learning-based object detection and tracking for an unmanned product cabinet. Expert Systems With Applications, 2020, 143, 113063.	4.4	19
8	High-Speed CAVLC Encoder for 1080p 60-Hz H.264 Codec. IEEE Signal Processing Letters, 2008, 15, 891-894.	2.1	18
9	Infrared image super-resolution using auxiliary convolutional neural network and visible image under low-light conditions. Journal of Visual Communication and Image Representation, 2018, 51, 191-200.	1.7	18
10	Eye pupil localization algorithm using convolutional neural networks. Multimedia Tools and Applications, 2020, 79, 32563-32574.	2.6	17
11	An Intra-Frame Rate Control Algorithm for Ultralow Delay H.264/Advanced Video Coding (AVC). IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 747-752.	5.6	15
12	Recognizing Fine Facial Micro-Expressions Using Two-Dimensional Landmark Feature. , 2018, , .		14
13	Multimodal Attention Network for Continuous-Time Emotion Recognition Using Video and EEG Signals. IEEE Access, 2020, 8, 203814-203826.	2.6	14
14	Night vision pedestrian detection based on adaptive preprocessing using near infrared camera. , 2016, , .		13
15	Visual Scene-aware Hybrid Neural Network Architecture for Video-based Facial Expression Recognition. , 2019, , .		13
16	Semi-Supervised Learning for Continuous Emotion Recognition Based on Metric Learning. IEEE Access, 2020, 8, 113443-113455.	2.6	13
17	Sharpness Enhancement and Super-Resolution of Around-View Monitor Images. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2650-2662.	4.7	12
18	Semi-supervised learning for facial expression-based emotion recognition in the continuous domain. Multimedia Tools and Applications, 2020, 79, 28169-28187.	2.6	12

#	ARTICLE	IF	CITATIONS
19	Object Detection Using Improved Bi-Directional Feature Pyramid Network. Electronics (Switzerland), 2021, 10, 746.	1.8	10
20	Virtual sample-based deep metric learning using discriminant analysis. Pattern Recognition, 2021, 110, 107643.	5.1	8
21	Metric-Based Attention Feature Learning for Video Action Recognition. IEEE Access, 2021, 9, 39218-39228.	2.6	7
22	Action Recognition Using Deep 3D CNNs with Sequential Feature Aggregation and Attention. Electronics (Switzerland), 2020, 9, 147.	1.8	6
23	High-resolution image scaler using hierarchical motion estimation and overlapped block motion compensation. IEEE Transactions on Consumer Electronics, 2010, 56, 1579-1585.	3.0	5
24	Hidden Emotion Detection using Multi-modal Signals. , 2021, , .		5
25	Low-complexity near-lossless image coder for efficient bus traffic in very large size multimedia SoC. , 2009, , .		4
26	De-noising algorithm using sparse 3D transform-domain collaborative filtering and adaptive soft thresholding. , 2011, , .		4
27	Power-Constrained Image Enhancement Using Multiband Processing for TFT LCD Devices With an Edge LED Backlight Unit. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1445-1456.	5.6	4
28	Filter Pruning and Re-Initialization via Latent Space Clustering. IEEE Access, 2020, 8, 189587-189597.	2.6	4
29	Channel Pruning Via Gradient Of Mutual Information For Light-Weight Convolutional Neural Networks. , 2020, , .		4
30	Video deblurring algorithm using an adjacent unblurred frame. , 2011, , .		3
31	Zero-Shot Knowledge Distillation Using Label-Free Adversarial Perturbation With Taylor Approximation. IEEE Access, 2021, 9, 45454-45461.	2.6	3
32	Deep Metric Learning With Manifold Class Variability Analysis. IEEE Transactions on Multimedia, 2022, 24, 3533-3544.	5.2	3
33	ROI-Based Video Stabilization Algorithm for Hand-Held Cameras. , 2012, , .		2
34	1080p 60 Hz Intra-Frame Video CODEC Chip Design and Its Implementation. Journal of Signal Processing Systems, 2012, 67, 291-303.	1.4	2
35	Video deblurring based on bidirectional motion compensation and accurate blur kernel estimation. , 2013, , .		2
36	Fast super-resolution algorithm using ELBP classifier. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
37	Night-time vehicle detection using low exposure video enhancement and lamp detection. , 2016, , .		2
38	Knowledge Transfer via Decomposing Essential Information in Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 366-377.	7.2	2
39	Spatio-temporal de-interlacing based on maximum likelihood estimation. , 2011, , .		1
40	Multi-image high dynamic range algorithm using a hybrid camera. Signal Processing: Image Communication, 2015, 30, 37-56.	1.8	1
41	Fast super-resolution algorithm using rotation-invariant ELBP classifier and hierarchical pattern matching. Journal of Visual Communication and Image Representation, 2017, 48, 1-15.	1.7	1
42	CNN-based pre-processing and multi-frame-based view transformation for fisheye camera-based AVM system. , 2017, , .		1
43	Prefiltering and Postfiltering Based on Global Motion Compensation for Improving Coding Efficiency in H.264 and HEVC Codecs. IEICE Transactions on Information and Systems, 2017, E100.D, 160-165.	0.4	1
44	Deep Transfer Learning for Emotion Recognition Networks. , 2018, , .		1
45	Demosaicking algorithm for whiteâ€RGB CFA images. IET Image Processing, 2019, 13, 811-816.	1.4	1
46	Visual Scene-Aware Hybrid and Multi-Modal Feature Aggregation for Facial Expression Recognition. Sensors, 2020, 20, 5184.	2.1	1
47	Transformation of Non-Euclidean Space to Euclidean Space for Efficient Learning of Singular Vectors. IEEE Access, 2020, 8, 127074-127083.	2.6	1
48	Slice-Based Super-Resolution Using Light-Weight Network With Relation Loss. , 2020, , .		1
49	Hardware-efficient color correlationâ€adaptive demosaicing with multifiltering. Journal of Electronic Imaging, 2019, 28, 1.	0.5	1
50	Super-resolution algorithm using noise level adaptive dictionary. , 2010, , .		0
51	Block Adaptive Interpolation Filter Using Trained Dictionary for Sub-Pixel Motion Compensation. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 241-248.	5.6	0
52	A subpixel-based image downsampling using learned 2D FIR filters. , 2014, , .		0
53	Subpixelâ€based image downsampling algorithm using contentâ€adaptive twoâ€dimensional FIR filters. IET Image Processing, 2014, 8, 445-454.	1.4	0
54	Automatic SfM-Based 2D-to-3D Conversion for Multi-Object Scenes. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1159-1161.	0.2	0

#	ARTICLE	IF	CITATIONS
55	Probabilistic Principal Geodesic Deep Metric Learning. IEEE Access, 2022, 10, 7439-7459.	2.6	0
56	Image based rainfall amount estimation for auto-wiping of vehicles. Neural Computing and Applications, 0, , .	3.2	0