Byung-Gyu Kim

List of Publications by Year
in descending order

109 papers	2,872 citations

304602

22 h-index	50 g-index

189801

117 all docs	117 docs citations

117 times ranked	2780 citing authors

#	Article	IF	Citations
1	Secure integration of IoT and Cloud Computing. Future Generation Computer Systems, 2018, 78, 964-975.	4.9	826
2	An Efficient Algorithm for Media-based Surveillance System (EAMSuS) in IoT Smart City Framework. Future Generation Computer Systems, 2018, 83, 619-628.	4.9	257
3	Efficient Facial Expression Recognition Algorithm Based on Hierarchical Deep Neural Network Structure. IEEE Access, 2019, 7, 41273-41285.	2.6	207
4	Novel therapies emerging in oncology to target the TGF-β pathway. Journal of Hematology and Oncology, 2021, 14, 55.	6.9	192
5	Blockchain Based Smart Contracts for Internet of Medical Things in e-Healthcare. Electronics (Switzerland), 2020, 9, 1609.	1.8	108
6	deepGesture: Deep learning-based gesture recognition scheme using motion sensors. Displays, 2018, 55, 38-45.	2.0	75
7	Deep Joint Spatiotemporal Network (DJSTN) for Efficient Facial Expression Recognition. Sensors, 2020, 20, 1936.	2.1	72
8	Deep BLSTM-GRU Model for Monthly Rainfall Prediction: A Case Study of Simtokha, Bhutan. Remote Sensing, 2020, 12, 3174.	1.8	59
9	Exploring Impact of Age and Gender on Sentiment Analysis Using Machine Learning. Electronics (Switzerland), 2020, 9, 374.	1.8	54
10	Novel Inter-Mode Decision Algorithm Based on Macroblock (MB) Tracking for the P-Slice in H.264/AVC Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 273-279.	5.6	49
11	A scale-adaptive object-tracking algorithm with occlusion detection. Eurasip Journal on Image and Video Processing, 2020, 2020, .	1.7	47
12	IoT-based surveillance system for ubiquitous healthcare. , 2016, , .		45
13	Early Coding Unit-Splitting Termination Algorithm for High Efficiency Video Coding (HEVC). ETRI Journal, 2014, 36, 407-417.	1.2	42
14	A local stereo matching algorithm based on weighted guided image filtering for improving the generation of depth range images. Displays, 2017, 49, 80-87.	2.0	37
15	Fast Selective Intra-Mode Search Algorithm Based on Adaptive Thresholding Scheme for H.264/AVC Encoding. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 127-133.	5.6	34
16	Efficient Large-scale Medical Data (eHealth Big Data) Analytics in Internet of Things. , 2017, , .		34
17	A Robust Facial Expression Recognition Algorithm Based on Multi-Rate Feature Fusion Scheme. Sensors, 2021, 21, 6954.	2.1	31
18	StoolNet for Color Classification of Stool Medical Images. Electronics (Switzerland), 2019, 8, 1464.	1.8	30

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19	Retrieval of colour and texture images using local directional peak valley binary pattern. Pattern Analysis and Applications, 2020, 23, 1569-1585.	3.1	28
20	Computer vision-guided intelligent traffic signaling for isolated intersections. Expert Systems With Applications, 2019, 134, 267-278.	4.4	27
21	An Efficient Sign Language Recognition (SLR) System Using Camshift Tracker and Hidden Markov Model (HMM). SN Computer Science, 2021, 2, 1.	2.3	26
22	Fast algorithm for the High Efficiency Video Coding (HEVC) encoder using texture analysis. Information Sciences, 2016, 364-365, 72-90.	4.0	25
23	Zoom Motion Estimation Using Block-Based Fast Local Area Scaling. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1280-1291.	5.6	23
24	Residual-Based Graph Convolutional Network for Emotion Recognition in Conversation for Smart Internet of Things. Big Data, 2021, 9, 279-288.	2.1	23
25	A Design of Fast High-Efficiency Video Coding Scheme Based on Markov Chain Monte Carlo Model and Bayesian Classifier. IEEE Transactions on Industrial Electronics, 2018, 65, 8861-8871.	5.2	20
26	Summarization of videos by analyzing affective state of the user through crowdsource. Cognitive Systems Research, 2018, 52, 917-930.	1.9	20
27	Single Image Super-Resolution Method Using CNN-Based Lightweight Neural Networks. Applied Sciences (Switzerland), 2021, 11, 1092.	1.3	20
28	Fast multi-feature pedestrian detection algorithm based on histogram of oriented gradient using discrete wavelet transform. Multimedia Tools and Applications, 2016, 75, 15229-15245.	2.6	19
29	Fast coding algorithm based on adaptive coding depth range selection for HEVC. , 2012, , .		18
30	Fast encoding algorithm for high-efficiency video coding (HEVC) system based on spatio-temporal correlation. Journal of Real-Time Image Processing, 2016, 12, 407-418.	2.2	18
31	Real-Time Multimodal Biometric Authentication of Human Using Face Feature Analysis. Computers, Materials and Continua, 2021, 69, 1-19.	1.5	15
32	Subject-Specific Cognitive Workload Classification Using EEG-Based Functional Connectivity and Deep Learning. Sensors, 2021, 21, 6710.	2.1	15
33	Fast coding unit (CU) determination algorithm for high-efficiency video coding (HEVC) in smart surveillance application. Journal of Supercomputing, 2017, 73, 1063-1084.	2.4	14
34	Context-aware block-based motion estimation algorithm for multimedia internet of things (IoT) platform. Personal and Ubiquitous Computing, 2018, 22, 163-172.	1.9	14
35	3D Avatar Approach for Continuous Sign Movement Using Speech/Text. Applied Sciences (Switzerland), 2021, 11, 3439.	1.3	13
36	Aspect-Based Sentiment Analysis in Hindi Language by Ensembling Pre-Trained mBERT Models. Electronics (Switzerland), 2021, 10, 2641.	1.8	13

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37	Efficient Inter-Mode Decision Based on Contextual Prediction for the P-Slice in H.264/AVC Video Coding. , 2006, , .		12
38	Secure medical images based on data hiding using a hybrid scheme with the Hamming code, LSB, and OPAP. Journal of Real-Time Image Processing, 2018, 14, 115-126.	2.2	12
39	Design of Efficient Perspective Affine Motion Estimation/Compensation for Versatile Video Coding (VVC) Standard. Electronics (Switzerland), 2019, 8, 993.	1.8	12
40	Frontal Face Generation Algorithm from Multi-view Images Based on Generative Adversarial Network. Journal of Multimedia Information System, 2021, 8, 85-92.	0.4	12
41	A Fast Inter-Mode Decision Algorithm Based on Macro-Block Tracking for P Slices in the H.264/AVC Video Standard. , 2007, , .		11
42	Solutions for inter-connectivity and security in a smart hospital building. , 2017, , .		11
43	Efficient and Robust Image Communication Techniques for 5G Applications in Smart Cities. Energies, 2021, 14, 3986.	1.6	11
44	CNN-based Fast Split Mode Decision Algorithm for Versatile Video Coding (VVC) Inter Prediction. Journal of Multimedia Information System, 2021, 8, 147-158.	0.4	11
45	Entropy difference-based early skip detection technique for high-efficiency video coding. Journal of Real-Time Image Processing, 2016, 12, 237-245.	2.2	10
46	Efficient Color Artifact Removal Algorithm Based on High-Efficiency Video Coding (HEVC) for High-Dynamic Range Video Sequences. IEEE Access, 2020, 8, 64099-64111.	2.6	10
47	Wavelet Attention Embedding Networks for Video Super-Resolution. , 2021, , .		10
48	Video based exercise recognition and correct pose detection. Multimedia Tools and Applications, 2022, 81, 30267-30282.	2.6	10
49	Place Classification Algorithm Based on Semantic Segmented Objects. Applied Sciences (Switzerland), 2020, 10, 9069.	1.3	9
50	Enhanced Single Image Super Resolution Method Using Lightweight Multi-Scale Channel Dense Network. Sensors, 2021, 21, 3351.	2.1	9
51	Enhancing object detection in aerial images. Mathematical Biosciences and Engineering, 2022, 19, 7920-7932.	1.0	9
52	Complexity reduction algorithm for prediction unit decision process in high efficiency video coding. IET Image Processing, 2016, 10, 53-60.	1.4	8
53	Design of Efficient Key Video Frame Protection Scheme for Multimedia Internet of Things (IoT) in Converged 5G Network. Mobile Networks and Applications, 2019, 24, 208-220.	2.2	8
54	The Assessment of Information and Communication Technology (ICT) Policy in South Korea. Lecture Notes in Electrical Engineering, 2014, , 1241-1249.	0.3	7

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55	Localization of region of interest in surveillance scene. Multimedia Tools and Applications, 2017, 76, 13651-13680.	2.6	7
56	Fast Inter-Mode Decision Algorithm for P Slices in H.264/AVC Video Standard. , 2007, , .		6
57	Transferring Wireless High Update Rate Supermedia Streams Over IoT. Studies in Computational Intelligence, 2018, , 93-103.	0.7	6
58	Distortion-Based Partial Distortion Search for Fast Motion Estimation. , 2007, , .		5
59	Efficient Wireless Vibration Data Sensing and Signal Processing Technique Based on the Android Platform. International Journal of Distributed Sensor Networks, 2014, 10, 278560.	1.3	5
60	Fast Coding Unit (CU) Depth Decision Algorithm for High Efficiency Video Coding (HEVC). Lecture Notes in Electrical Engineering, 2014, , 293-299.	0.3	5
61	Performance analysis of inter-layer prediction in scalable extension of HEVC (SHVC) for adaptive media service. Displays, 2016, 44, 27-36.	2.0	5
62	CNN-based approach for visual quality improvement on HEVC. , 2018, , .		5
63	A Directional & Adaptive Diamond Search by Adaptive Pattern Switching with a Predicted Motion Vector. , 2006, , .		4
64	Fast inter-mode decision algorithm for H.264/AVC using macroblock correlation and motion complexity analysis. , 2012, , .		4
65	Novel Intermode Prediction Algorithm for High Efficiency Video Coding Encoder. Advances in Multimedia, 2014, 2014, 1-8.	0.2	4
66	Fast video encoding algorithm for efficient social media service. Multimedia Tools and Applications, 2015, 74, 5157-5171.	2.6	4
67	Adaptive inter-layer prediction algorithm for scalable extensions of high efficiency video coding. , 2016, , .		4
68	An efficient delay-constrained ARQ scheme for MMT packet-based real-time video streaming over IP networks. Journal of Real-Time Image Processing, 2016, 12, 257-271.	2.2	4
69	Total Synthesis of (Â±)-Jujuyane. Organic Letters, 2021, 23, 4651-4656.	2.4	4
70	Fast Video Encoding Algorithm for the Internet of Things Environment Based on High Efficiency Video Coding. International Journal of Distributed Sensor Networks, 2015, 11, 146067.	1.3	4
71	Reinforced Palmprint Reconstruction Attacks in Biometric Systems. Sensors, 2022, 22, 591.	2.1	4
72	Fast mode decision scheme using sum of the absolute differenceâ€‌based Bayesian model for the H.264/AVC video standard. IET Signal Processing, 2014, 8, 530-539.	0.9	3

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73	Efficient Depth Map Estimation Method Based on Gradient Weight Cost Aggregation Strategy for Distributed Video Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 326029.	1.3	3
74	Reducing Security Overhead to Enhance Service Delivery in Jini IoT. International Journal of Distributed Sensor Networks, 2015, 11, 205793.	1.3	3
75	Fast intra mode decision algorithm based on local binary patterns in High Efficiency Video Coding (HEVC). , 2015, , .		3
76	Efficient local stereo matching technique using weighted guided image filtering (WGIF). , 2016, , .		3
77	Special issue on architectures and algorithms of high-efficiency video coding (HEVC) standard for realâ€time video applications. Journal of Real-Time Image Processing, 2016, 12, 215-218.	2.2	3
78	Design of efficient shape feature for object-based watermarking technology. Multimedia Tools and Applications, 2017, 76, 22741-22759.	2.6	3
79	Development of Low-Cost Vision-based Eye Tracking Algorithm for Information Augmented Interactive System. Journal of Multimedia Information System, 2020, 7, 11-16.	0.4	3
80	Intrusion-Tolerant Jini Service Architecture for Integrating Security and Survivability Support in DSN. International Journal of Distributed Sensor Networks, 2014, 10, 695240.	1.3	2
81	Content-Aware Fast Motion Estimation Algorithm for IoT Based Multimedia Service. International Journal of Distributed Sensor Networks, 2015, 11, 715651.	1.3	2
82	A novel hybrid 3D video service algorithm based on scalable video coding (SVC) technology. Displays, 2015, 40, 45-52.	2.0	2
83	Near real-time local stereo matching algorithm based on fast guided image filtering. , 2016, , .		2
84	Robust Weighted Keypoint Matching Algorithm for Image Retrieval. , 2018, , .		2
85	Digital Signal, Image and Video Processing for Emerging Multimedia Technology. Electronics (Switzerland), 2020, 9, 2012.	1.8	2
86	Efficient Depth Data Coding Method Based on Plane Modeling for Intra Prediction. IEEE Access, 2021, 9, 29153-29164.	2.6	2
87	Two-Dimensional Audio Compression Method Using Video Coding Schemes. Electronics (Switzerland), 2021, 10, 1094.	1.8	2
88	Reduction of Compression Artifacts Using a Densely Cascading Image Restoration Network. Applied Sciences (Switzerland), 2021, 11, 7803.	1.3	2
89	A Robust Real-Time Road Detection Algorithm Using Color and Edge Information. Lecture Notes in Computer Science, 2015, , 532-541.	1.0	2
90	Reciprocal interactions among Cobll1, PACSIN2, and SH3BP1 regulate drug resistance in chronic myeloid leukemia. Cancer Medicine, 2022, , .	1.3	2

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91	An efficient hybrid delivery technology for a broadcast TV service. Personal and Ubiquitous Computing, 2018, 22, 135-141.	1.9	1
92	Editorial: Recent Advances in Mining Intelligence and Context-Awareness on IoT-Based Platforms. Mobile Networks and Applications, 2019, 24, 160-162.	2.2	1
93	Scene Classification Algorithm Based on Semantic Segmented Objects. , 2021, , .		1
94	Open-CL based Multi GPU Acceleration for Video Object Detection. , 2021, , .		1
95	An Early Termination Algorithm for Efficient CU Splitting in HEVC. Journal of Broadcast Engineering, 2013, 18, 271-282.	0.1	1
96	Novel Real-Time Automobile Detection Algorithm for Blind Spot Area. Lecture Notes in Electrical Engineering, 2014, , 821-832.	0.3	1
97	Stereo Matching Algorithm Based on Fast Guided Image Filtering for 3-Dimensional Video Service. Journal of Digital Contents Society, 2016, 17, 523-529.	0.1	1
98	Time Classification Algorithm Based on Windowed-Color Histogram Matching. Applied Sciences (Switzerland), 2021, 11, 11997.	1.3	1
99	A Fast Block Mode Decision Algorithm using a Block Correlation in H.264/AVC. , 2007, , .		0
100	Fast selective-intra mode search algorithm based on macro-block tracking for inter-frames in the H.264/AVC video standard. , 2008, , .		0
101	Efficient depth map estimation method based on gradient weight cost aggregation strategy. , 2013, , .		0
102	Adaptive layer selection technique for low-power scalable video coding (SVC) system. New Review of Hypermedia and Multimedia, 2013, 19, 273-285.	0.9	0
103	Implementation of 21:9 cinema mode function using two ICs supporting full HD resolution. Displays, 2015, 40, 53-61.	2.0	0
104	Quality Improvement Algorithm for HDR Video Compression Based on HEVC. , 2018, , .		0
105	A Study on Deep learning-based Hand Drawing Psychological Analysis Algorithm. Journal of Digital Contents Society, 2021, 22, 1501-1509.	0.1	0
106	Visualization Technique of Spatial Statistical Data and System Implementation. KIPS Transactions on Software and Data Engineering, 2013, 2, 849-854.	0.1	0
107	Fast Mode Decision Algorithm Based on Adaptive Search Direction for Combined Scalability in Scalable Video Coding. Lecture Notes in Electrical Engineering, 2014, , 1-6.	0.3	0
108	Real-time Facial Expression Recognition using 3D Appearance and Geometric Network for Public Security. The Journal of Defense Acquisition and Technology, 2020, 2, 33-37.	0.2	0

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109	Design of Perspective Affine Motion Compensation for Versatile Video Coding (VVC). Lecture Notes in Computer Science, 2020, , 384-395.	1.0	0