Whoi-Yul Kim

List of Publications by Year
in descending order

74	1,195	687363	414414
papers	citations	13	32
		h-index	g-index

74	74	74	993
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A region-based shape descriptor using Zernike moments. Signal Processing: Image Communication, 2000, 16, 95-102.	3.2	303
2	A novel approach to the fast computation of Zernike moments. Pattern Recognition, 2006, 39, 2065-2076.	8.1	175
3	A novel two stage template matching method for rotation and illumination invariance. Pattern Recognition, 2002, 35, 119-129.	8.1	118
4	Robust rotation angle estimator. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1999, 21, 768-773.	13.9	52
5	Automated Inspection System for Rolling Stock Brake Shoes. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2835-2847.	4.7	42
6	Eye Detection in Facial Images Using Zernike Moments with SVM. ETRI Journal, 2008, 30, 335-337.	2.0	39
7	Rapid eye detection method for non-glasses type 3D display on portable devices. IEEE Transactions on Consumer Electronics, 2010, 56, 2498-2505.	3.6	37
8	Automatic video summarizing tool using MPEG-7 descriptors for personal video recorder. IEEE Transactions on Consumer Electronics, 2003, 49, 742-749.	3.6	35
9	Long range eye gaze tracking system for a large screen. IEEE Transactions on Consumer Electronics, 2012, 58, 1119-1128.	3.6	32
10	Nighttime Data Augmentation Using GAN for Improving Blind-Spot Detection. IEEE Access, 2020, 8, 48049-48059.	4.2	28
11	Part-based vehicle detection in side-rectilinear images for blind-spot detection. Expert Systems With Applications, 2018, 101, 116-128.	7.6	27
12	Skeleton-Based Dynamic Hand Gesture Recognition Using a Part-Based GRU-RNN for Gesture-Based Interface. IEEE Access, 2020, 8, 50236-50243.	4.2	27
13	Long-Range Gaze Tracking System for Large Movements. IEEE Transactions on Biomedical Engineering, 2013, 60, 3432-3440.	4.2	24
14	Real-time detection of foreign objects using X-ray imaging for dry food manufacturing line. , 2008, , .		22
15	Hierarchy embedded differential image for progressive transmission using lossless compression. IEEE Transactions on Circuits and Systems for Video Technology, 1995, 5, 1-13.	8.3	21
16	Lane detection system with around view monitoring for intelligent vehicle. , 2013, , .		20
17	Automatic Estimation of Pedestrian Flow. , 2007, , .		14
18	Parallelized Tube Rearrangement Algorithm for Online Video Synopsis. IEEE Signal Processing Letters, 2018, 25, 1186-1190.	3.6	13

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19	Development of Content‐Based Trademark Retrieval System on the World Wide Web. ETRI Journal, 1999, 21, 40-54.	2.0	12
20	Optimum Geometric Transformation and Bipartite Graph-Based Approach to Sweat Pore Matching for Biometric Identification. Symmetry, 2018, 10, 175.	2.2	11
21	Reversible decorrelation method for progressive transmission of 3-D medical image. IEEE Transactions on Medical Imaging, 1998, 17, 383-394.	8.9	10
22	Pedestrian Counting Using an IR Line Laser. , 2008, , .		9
23	Precise 3D Baseball Pitching Trajectory Estimation Using Multiple Unsynchronized Cameras. IEEE Access, 2019, 7, 166463-166475.	4.2	8
24	Defining a new annotation object for DICOM image: a practical approach. Computerized Medical Imaging and Graphics, 2004, 28, 371-375.	5.8	7
25	Noise Reduction for Image Signal Processor in Digital Cameras. , 2008, , .		7
26	NIR Reflection Augmentation for DeepLearning-Based NIR Face Recognition. Symmetry, 2019, 11, 1234.	2.2	7
27	Vacant Parking Slot Recognition Method for Practical Autonomous Valet Parking System Using around View Image. Symmetry, 2020, 12, 1725.	2.2	7
28	Automated thickness measuring system for brake shoe of rolling stock. , 2009, , .		6
29	Forward vehicle detection using cluster-based AdaBoost. Optical Engineering, 2014, 53, 102103.	1.0	6
30	An Automatic Calibration Method for AVM Cameras. IEEE Access, 2020, 8, 192073-192086.	4.2	6
31	A novel design of urine test strip with spatially adjacent reference color chart. , 2014, , .		5
32	Fingerprint pore matching method using polar histogram. , 2014, , .		5
33	The description and retrieval of a sequence of moving objects using a shape variation map. Pattern Recognition Letters, 2004, 25, 1369-1375.	4.2	4
34	Robust Epiphyseal Extraction Method Based on Horizontal Profile Analysis of Finger Images. , 2007, , .		4
35	Highlight generation for basketball video using probabilistic excitement. , 2009, , .		4
36	A DCNN-Based Fast NIR Face Recognition System Robust to Reflected Light From Eyeglasses. IEEE Access, 2020, 8, 80948-80963.	4.2	4

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37	Specular Detection on Glossy Surface Using Geometric Characteristics of Specularity in Top-View Images. Sensors, 2021, 21, 2079.	3.8	4
38	Real-time Full-view 3D Human Reconstruction using Multiple RGB-D Cameras. IEIE Transactions on Smart Processing and Computing, 2015, 4, 224-230.	0.4	4
39	Virtual Contamination Lane Image and Video Generation Method for the Performance Evaluation of the Lane Departure Warning System. Transactions of the Korean Society of Automotive Engineers, 2016, 24, 627-634.	0.3	4
40	Prototype Development of a Spatial Information Management System for Large-Scale Buildings. , 2008, , .		3
41	Image Analysis System for Measuring the Thickness of Train Brakes. , 2009, , .		3
42	Thickness measuring method by image processing for lining-type brake of rolling stock. , 2010, , .		3
43	Measuring pedestrian traffic using feature-based regression in the spatiotemporal domain. International Journal of Control, Automation and Systems, 2012, 10, 328-340.	2.7	3
44	Calculating Accurate Window Size for Shape-From-Focus. , 2014, , .		3
45	Epiphyses Extraction Method Using Shape Information for Left Hand Radiography. , 2008, , .		2
46	Descreening Using HOG-based Adaptive Smoothing Filter. , 2010, , .		2
47	Start-End Time Detection in Baseball Videos for Automatic Pitching Trajectory Analysis. , 2019, , .		2
48	Nearby Vehicle Detection in the Adjacent Lane using In-vehicle Front View Camera. Journal of Korea Multimedia Society, 2012, 15, 996-1003.	0.2	2
49	An Image Enhancement Algorithm based on Color Constancy and Histogram Equalization using Edge Region. Journal of Broadcast Engineering, 2010, 15, 332-345.	0.1	2
50	Development of Methods for Extracting Space Information from 3D CAD. , 2008, , .		1
51	Mobile big data [Guest editorial]. IEEE Network, 2016, 30, 4-5.	6.9	1
52	Vision-based Approach in Finding Multitype Parking Stall Entrance. , 2018, , .		1
53	Fast satellite streak detection for high-resolution image. , 2018, , .		1
54	Weakly-Supervised Defect Segmentation on Periodic Textures Using CycleGAN. IEEE Access, 2020, 8, 176202-176216.	4.2	1

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55	An Improved AdaBoost Algorithm by Clustering Samples. Journal of Broadcast Engineering, 2013, 18, 643-646.	0.1	1
56	High-Speed Satellite Detection in High-Resolution Image Using Image Processing. Journal of the Korean Society for Aeronautical & Space Sciences, 2018, 46, 427-435.	0.1	1
57	Designing low cost embedded system for multimedia data processing: Linux based micro kernel approach. , 0, , .		0
58	Video/image retrieval system based on MPEG-7 (VIRS). , 2003, , .		0
59	Automatic video summarizing tool using MPEG-7 descriptors for STB. , 0, , .		0
60	Zikimi: A Case Study in Micro Kernel Design for Multimedia Applications. Multimedia Tools and Applications, 2005, 27, 351-366.	3.9	0
61	Effective dimensionality reduction in multimedia applications. , 2009, , .		0
62	Image annotation using Principal component analysis of Census Transform. , 2010, , .		0
63	An Accurate User Position Estimation Method Using a Single Camera for 3D Display without Glasses. IEICE Transactions on Information and Systems, 2013, E96.D, 1344-1350.	0.7	0
64	Stereo camera based real-time gaze correction method by matching and blending eye regions. , 2014, , .		0
65	Real catcher view image generation method for baseball contents. , 2018, , .		0
66	A Method of Pedestrian Flow Speed Estimation Adaptive to Viewpoint Changes. Journal of Broadcast Engineering, 2009, 14, 409-418.	0.1	0
67	High-definition Video Enhancement Using Color Constancy Based on Scene Unit and Modified Histogram Equalization. Journal of Broadcast Engineering, 2010, 15, 368-379.	0.1	0
68	Moving Object Contour Detection Using Spatio-Temporal Edge with a Fixed Camera. Journal of Broadcast Engineering, 2010, 15, 474-486.	0.1	0
69	Development of the Media Art Contents Authoring Tool Using Eclipse-based GMF Technique. The Journal of the Korea Contents Association, 2011, 11, 113-125.	0.1	0
70	In-Car Video Stabilization using Focus of Expansion. Journal of Korea Multimedia Society, 2011, 14, 1536-1543.	0.2	0
71	A Rotation Angle Estimation Method Based on Phase of ART. Journal of Broadcast Engineering, 2012, 17, 81-94.	0.1	0
72	A Shape Based Image Retrieval Method using Phase of ART. Journal of Broadcast Engineering, 2012, 17, 26-36.	0.1	0

#	ARTICLE	IF	CITATIONS
73	Halftone Noise Removal in Scanned Images using HOG based Adaptive Smoothing Filter. Journal of Broadcast Engineering, 2012, 17, 316-324.	0.1	0
74	A Hybrid Fabrication Technique of Capacitive Flow Meters Using Three-Dimensional Printing for Rectifying Airflows. IEEE Access, 2022, 10, 45073-45079.	4.2	0