Hyunchul Shin

List of Publications by Year
in descending order

49 papers	528 citations	759055 12 h-index	752573 20 g-index
49 all docs	49 docs citations	49 times ranked	420 citing authors

#	Article	IF	Citations
1	DW-YOLO: An Efficient Object Detector for Drones and Self-driving Vehicles. Arabian Journal for Science and Engineering, 2023, 48, 1427-1436.	1.7	9
2	PIFNet: 3D Object Detection Using Joint Image and Point Cloud Features for Autonomous Driving. Applied Sciences (Switzerland), 2022, 12, 3686.	1.3	6
3	3D Object Detection Using Frustums and Attention Modules for Images and Point Clouds. Signals, 2021, 2, 98-107.	1.2	5
4	Two-stream small-scale pedestrian detection network with feature aggregation for drone-view videos. Multidimensional Systems and Signal Processing, 2021, 32, 897-913.	1.7	6
5	Hardware Architecture Exploration for Deep Neural Networks. Arabian Journal for Science and Engineering, 2021, 46, 9703-9712.	1.7	1
6	Occluded Pedestrian Detection Techniques by Deformable Attention-Guided Network (DAGN). Applied Sciences (Switzerland), 2021, 11, 6025.	1.3	8
7	Performance enhancement techniques for traffic sign recognition using a deep neural network. Multimedia Tools and Applications, 2020, 79, 20545-20560.	2.6	10
8	Multispectral image fusion based pedestrian detection using a multilayer fused deconvolutional single-shot detector. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 768.	0.8	12
9	Pedestrian Detection at Night in Infrared Images Using an Attention-Guided Encoder-Decoder Convolutional Neural Network. Applied Sciences (Switzerland), 2020, 10, 809.	1.3	32
10	A New Deep Learning Based Multi-Spectral Image Fusion Method. Entropy, 2019, 21, 570.	1.1	38
11	Effective datapath logic extraction techniques using connection vectors. IET Circuits, Devices and Systems, 2019, 13, 741-747.	0.9	1
12	Context-aware pedestrian detection especially for small-sized instances with Deconvolution Integrated Faster RCNN (DIF R-CNN). Applied Intelligence, 2019, 49, 1200-1211.	3.3	20
13	Multiâ€layer fusion techniques using a CNN for multispectral pedestrian detection. IET Computer Vision, 2018, 12, 1179-1187.	1.3	40
14	Korean Traffic Sign Detection Using Deep Learning. , 2018, , .		5
15	Weather Classification using Convolutional Neural Networks. , 2018, , .		12
16	Infrared and Visible Image Fusion using Multi-Scale Decomposition and Visual Saliency Map. , 2018, , .		0
17	Efficient coarserâ€toâ€fine holistic traffic sign detection for occlusion handling. IET Image Processing, 2018, 12, 2229-2237.	1.4	14
18	New Dark Area Sensitive Tone Mapping for Deep Learning Based Traffic Sign Recognition. Sensors, 2018, 18, 3776.	2.1	15

#	Article	IF	Citations
19	Charge–sharing read port with bitline pre–charging and sensing scheme for low–power SRAMs. International Journal of Circuit Theory and Applications, 2017, 45, 1231-1248.	1.3	5
20	D–patches: effective traffic sign detection with occlusion handling. IET Computer Vision, 2017, 11, 368-377.	1.3	14
21	Robust hypothesis generation method using binary blob analysis for multi–lane detection. IET Image Processing, 2017, 11, 1210-1218.	1.4	27
22	Effective regularity extraction and placement techniques for datapath–intensive circuits. IET Circuits, Devices and Systems, 2017, 11, 512-519.	0.9	1
23	Hand gesture recognition using deep learning. , 2017, , .		56
24	A fast and energy-efficient two-stage level shifter using the controlled Wilson current mirror. Automatika, 2017, 58, 473-478.	1.2	2
25	Chunks: The remedy for notorious false alarms in pedestrian detection. , 2016, , .		1
26	Road vanishing point detection using weber adaptive local filter and salient–block–wise weighted soft voting. IET Computer Vision, 2016, 10, 503-512.	1.3	13
27	Single image dehazing via reliability guided fusion. Journal of Visual Communication and Image Representation, 2016, 40, 85-97.	1.7	30
28	Charge sharing based 10T SRAM for low-power. IEICE Electronics Express, 2016, 13, 20151033-20151033.	0.3	3
29	Single image dehazing with bright object handling. IET Computer Vision, 2016, 10, 817-827.	1.3	11
30	Vanishing point detection using random forest and patch–wise weighted soft voting. IET Image Processing, 2016, 10, 900-907.	1.4	6
31	An energy efficient sub-threshold to above-threshold level shifter using a modified Wilson current mirror. International Journal of Electronics, 2016, 103, 1216-1227.	0.9	1
32	Energy efficient low static-power voltage level shifter. IEICE Electronics Express, 2015, 12, 20150633-20150633.	0.3	2
33	Real–time single image dehazing using block–to–pixel interpolation and adaptive dark channel prior. IET Image Processing, 2015, 9, 725-734.	1.4	49
34	Detecting partially occluded vehicles with geometric and likelihood reasoning. IET Computer Vision, 2015, 9, 174-183.	1.3	4
35	Enhancement of hough voting by using appearance similarity for object detection. , 2014, , .		0
36	Discriminative leaf based Hough Forest for vehicle detection. , 2014, , .		0

#	Article	IF	Citations
37	An effective window based legalization algorithm for FPGA placement. , 2013, , .		1
38	Pedestrian detection and tracking using deformable part models and Kalman filtering. , 2012, , .		9
39	Rendering high dynamic range images by using integrated global and local processing. Optical Engineering, 2011, 50, 117002.	0.5	12
40	Low-cost design for repair with circuit partitioning. , 2010, , .		0
41	Hierarchy Restructuring for Hierarchical LVS Comparison. VLSI Design, 1999, 10, 117-125.	0.5	2
42	An area-efficient VLSI architecture of a Reed-Solomon decoder/encoder for digital VCRs. IEEE Transactions on Consumer Electronics, 1997, 43, 1019-1027.	3.0	39
43	Performance-driven circuit partitioning for prototyping by using multiple FPGA chips. , 0, , .		1
44	An improved partitioning method using clustering refinement [VLSI design]. , 0, , .		0
45	An improved hierarchical placement technique using clustering and region refinement. , 0, , .		0
46	Partitioning for minimal memory in hardware-software codesign. , 0, , .		0
47	Hierarchical LVS based on hierarchy rebuilding. , 0, , .		4
48	Hardware cost estimation techniques for C-level description. , 0, , .		0
49	Skew optimization by combining tree-based and graph-based techniques for high performance clock routing. , 0, , .		1