

Young Hwan Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Variation-Aware SRAM Cell Optimization Using Deep Neural Network-Based Sensitivity Analysis. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1567-1577.	5.4	2
2	Fluctuation-Based Fade Detection for Local Scene Changes. IEEE Access, 2021, 9, 149732-149743.	4.2	1
3	Proactive Scenario Characteristic-Aware Online Power Management on Mobile Systems. IEEE Access, 2020, 8, 69695-69711.	4.2	3
4	Additive Statistical Leakage Analysis Using Exponential Mixture Model. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4985-4998.	2.7	0
5	Performance analysis of structural similarity-based backlight dimming algorithm modulated by controlling allowable local distortion of output image. Displays, 2019, 59, 1-8.	3.7	5
6	SmartGrid: Video Retargeting With Spatiotemporal Grid Optimization. IEEE Access, 2019, 7, 127564-127579.	4.2	9
7	Statistical Modeling of Read Static Noise Margin for 6-Transistor SRAM cell. , 2019, , .		4
8	Event-based application modeling for analysis of asymmetric multicore-based mobile systems. Journal of Systems Architecture, 2019, 97, 477-490.	4.3	1
9	Estimation of Maximum Speed-Up in Multicore-Based Mobile Devices. IEEE Embedded Systems Letters, 2019, 11, 62-65.	1.9	2
10	Dual-dissimilarity measure-based statistical video cut detection. Journal of Real-Time Image Processing, 2019, 16, 1987-1997.	3.5	7
11	Estimation of Leakage Distribution Utilizing Gaussian Mixture Model. , 2018, , .		0
12	SoftCorner: Relaxation of Corner Values for Deterministic Static Timing Analysis of VLSI Systems. IEEE Access, 2018, 6, 60115-60127.	4.2	2
13	Segmentation-based disparity refinement. , 2018, , .		0
14	Statistical Leakage Analysis Using Gaussian Mixture Model. IEEE Access, 2018, 6, 51939-51950.	4.2	5
15	Non-Iterative Tone Mapping With High Efficiency and Robustness. IEEE Access, 2018, 6, 35720-35733.	4.2	2
16	Utilization of relieved corners from multi-corner libraries in deterministic static timing analysis. , 2017, , .		0
17	HMD-based virtual multi-screen control system and its gesture interface. , 2017, , .		0
18	Census transform-based static caption detection for frame rate up-conversion. , 2017, , .		2

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19	Weighted peak ratio for estimating stereo confidence level using color similarity. , 2016, , .		2
20	Image interpolation based on Hessian analysis. , 2016, , .		1
21	Perceived Distortion-Based Progressive LCD Backlight Dimming Method. Journal of Display Technology, 2016, 12, 1130-1138.	1.2	6
22	Design-time energy optimization for asymmetric multiprocessor system-on-chip. , 2016, , .		2
23	Contrast enhancement using multiple mapping functions for power reduction in OLED display. , 2016, , .		1
24	Calculating the probability of timing violation of F/F-controlled paths with timing variations. , 2016, , .		1
25	Profiling-based task graph extraction on multiprocessor system-on-chip. , 2016, , .		4
26	Noniterative Power-Constrained Contrast Enhancement Algorithm for OLED Display. Journal of Display Technology, 2016, 12, 1257-1267.	1.2	10
27	Adaptive contrast enhancement using edge-based lighting condition estimation. , 2016, 58, 1-9.		6
28	Configurable Controller for High-Resolution LED Display Systems. Journal of Display Technology, 2016, 12, 1594-1601.	1.2	5
29	Block-based static caption detection using intensity range. , 2016, , .		1
30	Multimode Image Compression Algorithm Employing Multiple-Choice Knapsack Problem-Based Encoding Mode Selection. Journal of Display Technology, 2016, 12, 549-556.	1.2	1
31	Real-time stereo matching using extended binary weighted aggregation. , 2016, 53, 51-61.		8
32	Energy-efficient design time task mapping algorithm for MPSoC. , 2015, , .		1
33	Balanced current source model of the three-input combinational logic gate for timing analysis. , 2015, , .		0
34	An energy efficient multi-scale retinex algorithm based on the ratio of saturated regions. , 2015, , .		0
35	Efficient Statistical Timing Analysis Using Deterministic Cell Delay Models. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 2709-2713.	3.1	6
36	Automatic depth map generation from a single image using segment-adaptive depth merging. , 2015, , .		0

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37	Foreground-based depth map generation for 2D-to-3D conversion. , 2015, , .		0
38	Ray-casting algorithm and its considerations for parallel processing optimization techniques for parallel ray-casting algorithm. , 2014, , .		2
39	Viewing Distance-Aware Backlight Dimming of Liquid Crystal Displays. Journal of Display Technology, 2014, 10, 867-874.	1.2	5
40	Stereo confidence metrics using the costs of surrounding pixels. , 2014, , .		4
41	Image segmentation using linked mean-shift vectors for SIMD architecture. , 2014, , .		3
42	Human perception-based image segmentation using optimising of colour quantisation. IET Image Processing, 2014, 8, 761-770.	2.5	11
43	Image denoising considering characteristics of YCbCr color channels. , 2014, , .		0
44	Segmentation-Based Clipped Error Control Algorithm for Global Backlight Dimming. Journal of Display Technology, 2014, 10, 568-573.	1.2	14
45	Dictionary-based anisotropic diffusion for noise reduction. Pattern Recognition Letters, 2014, 46, 36-45.	4.2	13
46	Multi-histogram based scene change detection for frame rate up-conversion. , 2013, , .		2
47	Direction-Select Motion Estimation for Motion-Compensated Frame Rate Up-Conversion. Journal of Display Technology, 2013, 9, 840-850.	1.2	44
48	Efficient statistical leakage analysis using deterministic cell leakage models. Microelectronics Journal, 2013, 44, 764-773.	2.0	0
49	Image Quality-Aware Backlight Dimming With Color and Detail Enhancement Techniques. Journal of Display Technology, 2013, 9, 112-121.	1.2	30
50	Edge connectivity-based image denoising for digital TV systems. , 2013, , .		0
51	Accuracy enhancement of image segmentation using adaptive anisotropic diffusion. , 2013, , .		1
52	Perceived distortion aware backlight dimming for low power and high quality LCD devices. , 2013, , .		2
53	ASIP-based control system for LED matrix display. , 2012, , .		3
54	Analysis and design for text readability increase in quad-structure RGBW color EPD. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Statistical leakage analysis using the deterministic modeling of cell leakage current. , 2012, , .		0
56	Scene-Adaptive RGB-to-RGBW Conversion Using Retinex Theory-Based Color Preservation. Journal of Display Technology, 2012, 8, 684-694.	1.2	14
57	Scene Change Detection Using Multiple Histograms for Motion-Compensated Frame Rate Up-Conversion. Journal of Display Technology, 2012, 8, 121-126.	1.2	29
58	Leakage current modeling for GPGPU systems. , 2011, , .		1
59	Two-step local dimming for image quality preservation in LCD displays. , 2011, , .		11
60	Integer-pel Motion Estimation specific instructions and their hardware architecture for ASIP. , 2011, , .		3
61	Statistical leakage analysis by parallel Monte-Carlo programming on a CUDA platform. , 2011, , .		1
62	Multi-Histogram-Based Backlight Dimming for Low Power Liquid Crystal Displays. Journal of Display Technology, 2011, 7, 544-549.	1.2	39
63	A simulation model of 3D crosstalk phenomenon on 3D plasma display with active shutter glasses. IEEE Transactions on Consumer Electronics, 2011, 57, 1451-1459.	3.6	7
64	Dynamic backlight dimming using multiple histograms for low power liquid crystal displays. , 2011, , .		0
65	P-88: Surface-Based Adaptive Incremental Subfield Coding Method for Plasma Display Panels. Digest of Technical Papers SID International Symposium, 2010, 41, 1576.	0.3	0
66	Dynamic clipping ratio determination for global backlight dimming in LCD. , 2010, , .		1
67	Efficient reduction technique of resistive mesh structured power network. , 2010, , .		0
68	Motion vector smoothing for motion-compensated frame rate up-conversion. , 2010, , .		1
69	Dual Motion Estimation for Frame Rate Up-Conversion. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1909-1914.	8.3	89
70	Effect of gate-level design margin relaxation on overall circuit performance metrics in VLSI design. , 2010, , .		1
71	Design and implementation of median filter based adaptive motion vector smoothing for motion compensated frame rate up-conversion. , 2009, , .		11
72	Low cost and flexible processor-based controller for timing signal generation in PDP. , 2009, , .		1

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73	Effect of local random variation on gate-level delay and leakage statistical analysis. , 2009, , .		0
74	Image integrity-based gray-level error control for low power liquid crystal displays. IEEE Transactions on Consumer Electronics, 2009, 55, 2401-2406.	3.6	45
75	P-48: Adaptive Sum of the Bilateral Absolute Difference for Motion Estimation Using Temporal Symmetry. Digest of Technical Papers SID International Symposium, 2009, 40, 1271.	0.3	0
76	Multiframe-based bilateral motion estimation with emphasis on stationary caption processing for frame rate up-conversion. IEEE Transactions on Consumer Electronics, 2008, 54, 1830-1838.	3.6	45
77	A Low-Power Implementation of Asynchronous 8051 Employing Adaptive Pipeline Structure. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 673-677.	3.0	8
78	Scan order decision algorithm for improving the reliability of PDP data drivers. , 2008, , .		8
79	Assessment of using the statistical timing analysis software for the VLSI design at the macro level. , 2008, , .		0
80	Hardware implementation of motion estimation using a sub-sampled block for frame rate up-conversion. , 2008, , .		9
81	Comparison of characterization methods for statistical analysis of SoC designs. , 2008, , .		0
82	33.3: A Novel Image Compression Algorithm for Overdriving. Digest of Technical Papers SID International Symposium, 2008, 39, 468.	0.3	4
83	Investigation of efficiency and accuracy on incremental SSTA. , 2008, , .		0
84	Incremental statistical static timing analysis with gate timing yield emphasis. , 2008, , .		4
85	P-48: Adaptive Frame Rate Up-Conversion Considering Low Computational Complexity and Complex Motion. Digest of Technical Papers SID International Symposium, 2008, 39, 1359.	0.3	0
86	Motion Compensated Frame Rate Up-Conversion Using Extended Bilateral Motion Estimation. IEEE Transactions on Consumer Electronics, 2007, 53, 1759-1767.	3.6	102
87	Timing modeling of latch-controlled sub-systems. The Integration VLSI Journal, 2007, 40, 62-73.	2.1	5
88	An application specific processor-based controller for plasma display panels. IEEE Transactions on Consumer Electronics, 2006, 52, 953-961.	3.6	6
89	Plasma uniformity of inductively coupled plasma reactor with helical heating coil. IEEE Transactions on Plasma Science, 2001, 29, 383-387.	1.3	4
90	Efficiency improvement of high-pressure microplasma by an electron beam. IEEE Transactions on Plasma Science, 2001, 29, 837-843.	1.3	3

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91	Critical path analysis considering the signal transition time. , 0, , .		1