

Chong-Min Kyung

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

485
citations

13
h-index

19
g-index

95
ext. papers

627
ext. citations

3.4
avg, IF

3.98
L-index

#	Paper	IF	Citations
59	A Lossless Embedded Compression Using Significant Bit Truncation for HD Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2010 , 20, 848-860	6.4	50
58	A Low-Complexity Pedestrian Detection Framework for Smart Video Surveillance Systems. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 2260-2273	6.4	45
57	Synthesis of application specific instructions for embedded DSP software. <i>IEEE Transactions on Computers</i> , 1999 , 48, 603-614	2.5	38
56	Rejecting Motion Outliers for Efficient Crowd Anomaly Detection. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 541-556	8	28
55	Suppressing rolling-shutter distortion of CMOS image sensors by motion vector detection. <i>IEEE Transactions on Consumer Electronics</i> , 2008 , 54, 1479-1487	4.8	25
54	Runtime Power Management of 3-D Multi-Core Architectures Under Peak Power and Temperature Constraints. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2011 , 30, 905-918	2.5	24
53	2019 ,		24
52	Reducing cross-coupling among interconnect wires in deep-submicron datapath design		22
51	Energy-Aware Video Encoding for Image Quality Improvement in Battery-Operated Surveillance Camera. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2012 , 20, 310-318	2.6	18
50	Temperature-Aware Integrated DVFS and Power Gating for Executing Tasks With Runtime Distribution. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2010 , 29, 1381-1394	2.5	16
49	Lossless frame memory recompression for video codec preserving random accessibility of coding unit. <i>IEEE Transactions on Consumer Electronics</i> , 2009 , 55, 2105-2113	4.8	16
48	Design and Implementation of Practical Step Detection Algorithm for Wrist-Worn Devices. <i>IEEE Sensors Journal</i> , 2016 , 1-1	4	14
47	Selective Search Area Reuse Algorithm for Low External Memory Access Motion Estimation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2009 , 19, 1044-1050	6.4	13
46	Memory-Efficient Parametric Semiglobal Matching. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 194-198	3.2	12
45	A lossless embedded compression algorithm for high definition video coding 2009 ,		9
44	Runtime Thermal Management for 3-D Chip-Multiprocessors With Hybrid SRAM/MRAM L2 Cache. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2015 , 23, 520-533	2.6	8
43	Dynamic-Range Widening in a CMOS Image Sensor Through Exposure Control Over a Dual-Photodiode Pixel. <i>IEEE Transactions on Electron Devices</i> , 2009 , 56, 3000-3008	2.9	8

42	MDSP-II: a 16-bit DSP with mobile communication accelerator. <i>IEEE Journal of Solid-State Circuits</i> , 1999 , 34, 397-404	5.5	8
41	Hybrid cache architecture replacing SRAM cache with future memory technology 2012 ,		7
40	Thermal-aware energy minimization of 3D-stacked L3 cache with error rate limitation 2011 ,		7
39	MetaCore: an application-specific programmable DSP development system. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2000 , 8, 173-183	2.6	6
38	A Dynamic Search Range Algorithm for Stabilized Reduction of Memory Traffic in Video Encoder. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2010 , 20, 1041-1046	6.4	5
37	Topology Synthesis for Low Power Cascaded Crossbar Switches. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2010 , 29, 2041-2045	2.5	5
36	A Multi-layer motion estimation scheme for spatial scalability in H.264/AVC scalable extension 2009 ,		5
35	A new parallel ray-tracing system based on object decomposition. <i>Visual Computer</i> , 1996 , 12, 244-253	2.3	5
34	In-Pixel Aperture CMOS Image Sensor for 2-D and 3-D Imaging. <i>IEEE Sensors Journal</i> , 2018 , 18, 9163-9168		5
33	Offset Aperture: A Passive Single-Lens Camera for Depth Sensing. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 1380-1393	6.4	4
32	Hardware architecture and optimization of sliding window based pedestrian detection on FPGA for high resolution images by varying local features 2015 ,		4
31	Maximizing throughput of temperature-constrained multi-core systems with 3D-stacked cache memory 2011 ,		4
30	Performance-driven event-based synchronization for multi-FPGA simulation accelerator with event time-multiplexing bus. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2005 , 24, 1444-1456	2.5	4
29	Exploiting intellectual properties with imprecise design costs for system-on-chip synthesis. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2002 , 10, 240-252	2.6	4
28	Fine-Tuning DARTS for Image Classification 2021 ,		4
27	EBSCam: Background Subtraction for Ubiquitous Computing. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2016 , 1-13	2.6	3
26	Static energy minimization of 3D stacked L2 cache with selective cache compression 2013 ,		3
25	A solar energy harvesting system for a portable compact LED lamp 2015 ,		3

24	Design of energy-aware video codec-based system 2010 ,		3
23	Conforming block inversion for low power memory. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2002 , 10, 15-19	2.6	3
22	Exploiting intellectual properties in ASIP designs for embedded DSP software		3
21	Offset aperture based hardware architecture for real-time depth extraction 2017 ,		2
20	Memory efficient self guided image filtering 2017 ,		2
19	Energy minimization of 3D cache-stacked processor based on thin-film thermoelectric coolers 2011 ,		2
18	Hybrid L2 NUCA Design and Management Considering Data Access Latency, Energy Efficiency, and Storage Lifetime. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2016 , 24, 3118-3131	2.6	2
17	Accurate and Robust Walking Speed Estimation With Adaptive Regression Models for Wrist-Worn Devices. <i>IEEE Sensors Journal</i> , 2020 , 20, 10744-10755	4	1
16	Performance maximization of 3D-stacked cache memory on DVFS-enabled processor 2010 ,		1
15	Verification methodology of compatible microprocessors		1
14	Task partitioning algorithm for intra-task dynamic voltage scaling 2008 ,		1
13	ATOMi: an algorithm for circuit partitioning into multiple FPGAs using time-multiplexed, off-chip, multicasting interconnection architecture. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2005 , 13, 861-864	2.6	1
12	CeRA: a router for symmetrical FPGAs based on exact routing density evaluation. <i>IEEE Transactions on Computers</i> , 2004 , 53, 829-842	2.5	1
11	A hardware accelerator for the specular intensity of Phong illumination model in 3-dimensional graphics		1
10	Unsupervised deep learning for depth estimation with offset pixels. <i>Optics Express</i> , 2020 , 28, 8619-8639	3.3	1
9	Global Feature Aggregation for Accident Anticipation 2021 ,		1
8	Energy-efficient illumination-invariant change detection in DCT coefficient domain for vehicular black box camera. <i>Electronics Letters</i> , 2015 , 51, 822-824	1.1	0
7	Resource-Efficient and High-Throughput VLSI Design of Global Optical Flow Method for Mobile Systems. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2020 , 28, 1717-1725	2.6	0

6	Design Verification of Complex Microprocessors. <i>Journal of Circuits, Systems and Computers</i> , 1997 , 07, 301-318	0.9	0
5	Power Minimization for Dual- and Triple-Supply Digital Circuits via Integer Linear Programming. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2009 , E92-A, 2318-2325	0.4	
4	CONSCEP: A CONFIGURABLE SoC EMULATION PLATFORM FOR C-BASED FAST PROTOTYPING. <i>Journal of Circuits, Systems and Computers</i> , 2005 , 14, 137-157	0.9	
3	DIVA: dual-issue VLIW architecture with media instructions for image processing. <i>IEEE Transactions on Consumer Electronics</i> , 1999 , 45, 192-202	4.8	
2	On-Chip Depth and Image Sensing System With Offset Pixel Apertures. <i>IEEE Sensors Journal</i> , 2020 , 20, 14369-14382	4	
1	A Memory- and Accuracy-Aware Gaussian Parameter-Based Stereo Matching Using Confidence Measure. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 1845-1858	13.3	