Cheol-Hong Kim

List of Publications by Year
in descending order

62 papers	709 citations	623734 14 h-index	610901 24 g-index
62 all docs	62 docs citations	62 times ranked	561 citing authors

#	Article	IF	Citations
1	A Hybrid Feature Model and Deep-Learning-Based Bearing Fault Diagnosis. Sensors, 2017, 17, 2876.	3.8	150
2	Accurate Bearing Fault Diagnosis under Variable Shaft Speed using Convolutional Neural Networks and Vibration Spectrogram. Applied Sciences (Switzerland), 2020, 10, 6385.	2.5	51
3	An efficient scheduling scheme using estimated execution time for heterogeneous computing systems. Journal of Supercomputing, 2013, 65, 886-902.	3.6	41
4	Bearing Fault Classification Using Ensemble Empirical Mode Decomposition and Convolutional Neural Network. Electronics (Switzerland), 2021, 10, 1248.	3.1	31
5	Deep Learning-Based Bearing Fault Diagnosis Method for Embedded Systems. Sensors, 2020, 20, 6886.	3.8	25
6	A Method for Pipeline Leak Detection Based on Acoustic Imaging and Deep Learning. Sensors, 2022, 22, 1562.	3.8	25
7	Intelligent Fault Diagnosis Method Using Acoustic Emission Signals for Bearings under Complex Working Conditions. Applied Sciences (Switzerland), 2020, 10, 7068.	2.5	24
8	2D CNN-Based Multi-Output Diagnosis for Compound Bearing Faults under Variable Rotational Speeds. Machines, 2021, 9, 199.	2.2	24
9	Novel Bearing Fault Diagnosis Using Gaussian Mixture Model-Based Fault Band Selection. Sensors, 2021, 21, 6579.	3.8	23
10	A Deep-Learning-Based Bearing Fault Diagnosis Using Defect Signature Wavelet Image Visualization. Applied Sciences (Switzerland), 2020, 10, 8800.	2.5	20
11	The impact of liquid cooling on 3D multi-core processors. , 2009, , .		19
12	Construction of a Sensitive and Speed Invariant Gearbox Fault Diagnosis Model Using an Incorporated Utilizing Adaptive Noise Control and a Stacked Sparse Autoencoder-Based Deep Neural Network. Sensors, 2021, 21, 18.	3.8	19
13	A Novel Hybrid Deep Learning Method for Fault Diagnosis of Rotating Machinery Based on Extended WDCNN and Long Short-Term Memory. Sensors, 2021, 21, 6614.	3.8	17
14	Advanced Adaptive Fault Diagnosis and Tolerant Control for Robot Manipulators. Energies, 2019, 12, 1281.	3.1	16
15	Efficient Fault Diagnosis of Rolling Bearings Using Neural Network Architecture Search and Sharing Weights. IEEE Access, 2021, 9, 98800-98811.	4.2	16
16	Highly reliable state monitoring system for induction motors using dominant features in a two-dimension vibration signal. New Review of Hypermedia and Multimedia, 2013, 19, 248-258.	1.1	13
17	A Crack Characterization Method for Reinforced Concrete Beams Using an Acoustic Emission Technique. Applied Sciences (Switzerland), 2020, 10, 7918.	2.5	13
18	A new cache replacement algorithm for last-level caches by exploiting tag-distance correlation of cache lines. Microprocessors and Microsystems, 2015, 39, 286-295.	2.8	12

#	ARTICLE	IF	CITATIONS
19	Health State Classification of a Spherical Tank Using a Hybrid Bag of Features and K-Nearest Neighbor. Applied Sciences (Switzerland), 2020, 10, 2525.	2.5	11
20	A Novel Framework for Centrifugal Pump Fault Diagnosis by Selecting Fault Characteristic Coefficients of Walsh Transform and Cosine Linear Discriminant Analysis. IEEE Access, 2021, 9, 150128-150141.	4.2	11
21	An Analysis of Reducing Communication Delay in Network-on-Chip Interconnect Architecture. Wireless Personal Communications, 2013, 73, 1403-1419.	2.7	10
22	An optimal many-core model-based supercomputing for accelerating video-equipped fire detection. Journal of Supercomputing, 2015, 71, 2275-2308.	3.6	9
23	A Pipelined FFT Processor Using an Optimal Hybrid Rotation Scheme for Complex Multiplication: Design, FPGA Implementation and Analysis. Electronics (Switzerland), 2018, 7, 137.	3.1	8
24	A novel warp scheduling scheme considering long-latency operations for high-performance GPUs. Journal of Supercomputing, 2020, 76, 3043-3062.	3.6	8
25	A fast and energy-efficient Hamming decoder for software-defined radio using graphics processing units. Journal of Supercomputing, 2015, 71, 2454-2472.	3.6	7
26	Effective Prediction of Bearing Fault Degradation under Different Crack Sizes Using a Deep Neural Network. Applied Sciences (Switzerland), 2018, 8, 2332.	2.5	7
27	Adaptive Fuzzy-Based Fault-Tolerant Control of a Continuum Robotic System for Maxillary Sinus Surgery. Applied Sciences (Switzerland), 2019, 9, 2490.	2.5	7
28	Deep Learning Object-Impulse Detection for Enhancing Leakage Detection of a Boiler Tube Using Acoustic Emission Signal. Applied Sciences (Switzerland), 2019, 9, 4368.	2.5	7
29	Acoustic Emission Burst Extraction for Multi-Level Leakage Detection in a Pipeline. Applied Sciences (Switzerland), 2020, 10, 1933.	2.5	7
30	Enhancing Matrix Multiplication With a Monolithic 3-D-Based Scratchpad Memory. IEEE Embedded Systems Letters, 2021, 13, 57-60.	1.9	6
31	A GPU-based (8, 4) Hamming decoder for secure transmission of watermarked medical images. Cluster Computing, 2015, 18, 333-341.	5.0	5
32	A dynamic CTA scheduling scheme for massive parallel computing. Cluster Computing, 2017, 20, 781-787.	5.0	5
33	Early miss prediction based periodic cache bypassing for high performance GPUs. Microprocessors and Microsystems, 2017, 55, 44-54.	2.8	5
34	Online learning-based beam and blockage prediction for indoor millimeter-wave communications. ICT Express, 2022, 8, 1-6.	4.8	5
35	Energy-aware Filter Cache Architecture for Multicore Processors. , 2010, , .		4
36	Accelerating IP routing algorithm using graphics processing unit for high speed multimedia communication. Multimedia Tools and Applications, 2016, 75, 15365-15379.	3.9	4

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37	Feature Selection for Improving Failure Detection in Hard Disk Drives Using a Genetic Algorithm and Significance Scores. Applied Sciences (Switzerland), 2020, 10, 3200.	2.5	4
38	Health Indicators Construction and Remaining Useful Life Estimation for Concrete Structures Using Deep Neural Networks. Applied Sciences (Switzerland), 2021, 11, 4113.	2.5	4
39	Bearing Crack Diagnosis Using a Smooth Sliding Digital Twin to Overcome Fluctuations Arising in Unknown Conditions. Applied Sciences (Switzerland), 2022, 12, 6770.	2.5	4
40	Instruction Cache Design for Energy-Aware Embedded Processors by Using Backward Branch Information. , 2007, , .		3
41	An Accurate and Energy-Efficient Way Determination Technique for Instruction Caches by Early Tab Matching. , 2008, , .		3
42	Improving the System-on-a-Chip Performance for Mobile Systems by Using Efficient Bus Interface. , 2009, , .		3
43	NTB branch predictor: dynamic branch predictor for high-performance embedded processors. Journal of Supercomputing, 2016, 72, 1679-1693.	3.6	3
44	Application Characteristics-Aware Sporadic Cache Bypassing for high performance GPGPUs. Journal of Parallel and Distributed Computing, 2018, 122, 238-250.	4.1	3
45	Deep Neural Network for Beam and Blockage Prediction in 3GPP-Based Indoor Hotspot Environments. Wireless Personal Communications, 2022, 124, 3287-3306.	2.7	3
46	Energy-Effective Instruction Fetch Unit for Embedded Processors. , 2008, , .		2
47	Service-Oriented DDoS Detection Mechanism Using Pseudo State in a Flow Router. , 2013, , .		2
48	Concurrent warp execution: improving performance of GPU-likely SIMD architecture by increasing resource utilization. Journal of Supercomputing, 2014, 69, 330-356.	3.6	2
49	CTA-Aware Dynamic Scheduling Scheme for Streaming Multiprocessors in High-Performance GPUs. Lecture Notes in Electrical Engineering, 2016, , 1391-1399.	0.4	2
50	Multitask learning-based secure transmission for reconfigurable intelligent surface-aided wireless communications. ICT Express, 2022, 8, 334-339.	4.8	2
51	Impact of Clock Frequency and Number of Cores on GPU Performance. , 2014, , .		1
52	A Service-oriented DDoS detection mechanism using pseudo state in a flow router. Multimedia Tools and Applications, 2015, 74, 6341-6363.	3.9	1
53	A novel memory management technique for cloud client devices. Cluster Computing, 2015, 18, 1111-1116.	5.0	1
54	Gearbox Fault Identification Model Using an Adaptive Noise Canceling Technique, Heterogeneous Feature Extraction, and Distance Ratio Principal Component Analysis. Sensors, 2022, 22, 4091.	3.8	1

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55	Design of New Closed-Loop Spatial Multiplexing Scheme Using Linear Precoder. , 2008, , .		0
56	Loop Detection for Energy-Aware High Performance Embedded Processors. , 2008, , .		0
57	Parallel Approach to Fuzzy Vector Quantization for Image Compression. , 2009, , .		0
58	Analysis of Memory Management Policies for Heterogeneous Cloud Computing. , 2013, , .		0
59	A Residual Power Balancing Routing by Traffic-Splitting Transmission in Mobile Ad-Hoc Networks. , 2013, , .		0
60	A Novel Prefetch Technique for High Performance Embedded System. , 2014, , .		0
61	Impact of memory bottleneck on the performance of graphics processing units. , 2015, , .		0
62	A Study on L1 Data Cache Bypassing Methods for High-Performance GPUs. Communications in Computer and Information Science, 2019, , 210-219.	0.5	0