

Hyokyung Bahn

List of Publications by Year in descending order

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papers

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times ranked

462
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated Scheduling of Real-Time and Interactive Tasks for Configurable Industrial Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 631-641.	7.2	15
2	Supporting Swap in Real-Time Task Scheduling for Unified Power-Saving in CPU and Memory. IEEE Access, 2022, 10, 3559-3570.	2.6	7
3	Storage Type and Hot Partition Aware Page Reclamation for NVM Swap in Smartphones. Electronics (Switzerland), 2022, 11, 386.	1.8	2
4	Modeling and Analysis of the Page Sizing Problem for NVM Storage in Virtualized Systems. IEEE Access, 2021, 9, 52839-52850.	2.6	3
5	Characterization of Android Memory References and Implication to Hybrid Memory Management. IEEE Access, 2021, 9, 60997-61009.	2.6	5
6	Design and Implementation of a Distributed Versioning File System for Cloud Rendering. IEEE Access, 2021, 9, 138716-138723.	2.6	1
7	Characterizing File Accesses in Android Applications and Caching Implications. IEEE Access, 2021, 9, 150292-150303.	2.6	1
8	Characterizing Fine-Grained Resource Utilization for Multitasking GPGPU in Cloud Systems. IEEE Access, 2021, 9, 161507-161519.	2.6	2
9	Analysis of Thread Block Scheduling Algorithms for General Purpose GPU Systems. , 2021, , .		1
10	Selective Flushing of Modified Data for Smartphone Buffer Cache Management. , 2021, , .		4
11	Maintaining Application Context of Smartphones by Selectively Supporting Swap and Kill. IEEE Access, 2020, 8, 85140-85153.	2.6	9
12	Evolution-Based Real-Time Job Scheduling for Co-Optimizing Processor and Memory Power Savings. IEEE Access, 2020, 8, 152805-152819.	2.6	8
13	Separation of Virtual Machine I/O in Cloud Systems. IEEE Access, 2020, 8, 223756-223764.	2.6	2
14	Performance Analysis of Thread Block Schedulers in GPGPU and Its Implications. Applied Sciences (Switzerland), 2020, 10, 9121.	1.3	2
15	File Type and Access Pattern Aware Buffer Cache Management for Rendering Systems. Electronics (Switzerland), 2020, 9, 164.	1.8	6
16	A Cost Estimation Model for Cloud Services and Applying to PC Laboratory Platforms. Processes, 2020, 8, 76.	1.3	3
17	Implications of NVM Based Storage on Memory Subsystem Management. Applied Sciences (Switzerland), 2020, 10, 999.	1.3	6
18	Sensor and Dynamic Pricing Aware Vertical Transportation in Smart Buildings. Complexity, 2019, 2019, 1-11.	0.9	1

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19	Analysis of Smartphone I/O Characteristics â€” Toward Efficient Swap in a Smartphone. IEEE Access, 2019, 7, 129930-129941.	2.6	11
20	Tight Evaluation of Real-Time Task Schedulability for Processorâ€™s DVS and Nonvolatile Memory Allocation. Micromachines, 2019, 10, 371.	1.4	8
21	Improving storage performance of high-performance computing systems by using the non-volatile buffer cache. International Journal of Computers and Applications, 2019, , 1-5.	0.8	0
22	Challenges and Implications of Memory Management Systems under Fast SCM Storage. , 2019, , .		2
23	Revision-Aware Caching for Hybrid Cloud Render Farm. , 2019, , .		0
24	Real-time IaaS Cost Model and Estimation Results for Cloud PC Laboratory Service. , 2019, , .		1
25	Accelerating Storage System Performances with NVRAM Cache by Considering Storage Access Characteristics. , 2018, , .		0
26	Accelerating Storage Performance with NVRAM by Considering Application's I/O Characteristics. , 2018, , .		1
27	Exploiting write-only-once characteristics of file data in smartphone buffer cache management. Pervasive and Mobile Computing, 2017, 40, 528-540.	2.1	4
28	A smart elevator scheduler that considers dynamic changes of energy cost and user traffic. Integrated Computer-Aided Engineering, 2017, 24, 187-202.	2.5	11
29	Challenges in memory subsystem design for future smartphone systems. , 2017, , .		0
30	Combining memory allocation and processor voltage scaling for energy-efficient IoT task scheduling. , 2017, , .		2
31	Early Eviction of Non-Reusable Journal Data in Smartphone Buffer Cache Management. , 2017, , .		0
32	Efficient Memory Page Management for NVDIMM-Based Big Data Processing Environments. , 2017, , .		0
33	Reducing Write Amplification of Flash Storage through Cooperative Data Management with NVM. ACM Transactions on Storage, 2017, 13, 1-13.	1.4	24
34	A personalized interface for supporting multi-users in smart TVs. IEEE Transactions on Consumer Electronics, 2016, 62, 310-315.	3.0	10
35	An Adaptive Location Detection scheme for energy-efficiency of smartphones. Pervasive and Mobile Computing, 2016, 31, 67-78.	2.1	24
36	Design and Implementation of Kernel Binder Cache to Accelerate Android IPC. , 2016, , .		0

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37	An Energy-Efficient Positioning Scheme for Location-Based Services in a Smartphone. , 2016, , .		8
38	An efficient page replacement algorithm for PCM-based mobile embedded systems. , 2016, , .		1
39	Eliminating Periodic Flush Overhead of File I/O with Non-Volatile Buffer Cache. IEEE Transactions on Computers, 2016, 65, 1145-1157.	2.4	27
40	Efficient management of PCM-based swap storage. IEICE Electronics Express, 2015, 12, 20150614-20150614.	0.3	1
41	What Constrains Flash File System Performances?. , 2015, , .		0
42	Design and Implementation of a Journaling File System for Phase-Change Memory. IEEE Transactions on Computers, 2015, 64, 1349-1360.	2.4	33
43	Characterizing Memory References for Smartphone Applications and Its Implications. Journal of Semiconductor Technology and Science, 2015, 15, 223-231.	0.1	2
44	A Pruning-Based Disk Scheduling Algorithm for Heterogeneous I/O Workloads. Scientific World Journal, The, 2014, 2014, 1-17.	0.8	1
45	Empirical Study of NVM Storage: An Operating System's Perspective and Implications. , 2014, , .		22
46	Caching Strategies for High-Performance Storage Media. ACM Transactions on Storage, 2014, 10, 1-22.	1.4	27
47	CLOCK-DWF: A Write-History-Aware Page Replacement Algorithm for Hybrid PCM and DRAM Memory Architectures. IEEE Transactions on Computers, 2014, 63, 2187-2200.	2.4	123
48	A Unified Buffer Cache Architecture that Subsumes Journaling Functionality via Nonvolatile Memory. ACM Transactions on Storage, 2014, 10, 1-17.	1.4	7
49	Sensor-aware elevator scheduling for smart building environments. Building and Environment, 2014, 72, 332-342.	3.0	31
50	P2FS: supporting atomic writes for reliable file system design in PCM storage. IEICE Electronics Express, 2014, 11, 20140520-20140520.	0.3	2
51	Dual Management of Real-Time and Interactive Jobs in Smartphones. IEICE Transactions on Information and Systems, 2014, E97.D, 323-325.	0.4	1
52	Page Replacement for Write References in NAND Flash Based Virtual Memory Systems. Journal of Computing Science and Engineering, 2014, 8, 157-172.	0.3	13
53	A QoS-aware I/O mechanism for jitter-free multimedia playing in smart devices. IEEE Transactions on Consumer Electronics, 2013, 59, 869-874.	3.0	3
54	On-Demand Snapshot: An Efficient Versioning File System for Phase-Change Memory. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2841-2853.	4.0	28

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55	Improving the storage performance of smartphones through journaling in non-volatile memory. IEEE Transactions on Consumer Electronics, 2013, 59, 556-561.	3.0	22
56	A compressed file system manager for flash memory based consumer electronics devices. IEEE Transactions on Consumer Electronics, 2013, 59, 544-549.	3.0	11
57	Electricity Usage Scheduling in Smart Building Environments Using Smart Devices. Scientific World Journal, The, 2013, 2013, 1-11.	0.8	27
58	An Efficient Log Data Management Architecture for Big Data Processing in Cloud Computing Environments. Han'gug Inte'o'nes Bangsong Tongsin TV Haghoe Nonmunji, 2013, 13, 1-7.	0.1	2
59	Shortcut-JFS: A write efficient journaling file system for phase change memory. , 2012, , .		28
60	DABC-NV: A buffer cache architecture for mobile systems with heterogeneous flash memories. IEEE Transactions on Consumer Electronics, 2012, 58, 1237-1245.	3.0	12
61	Characterizing Memory Write References for Efficient Management of Hybrid PCM and DRAM Memory. , 2011, , .		37
62	Is Buffer Cache Still Effective for High Speed PCM (Phase Change Memory) Storage?. , 2011, , .		5
63	Popularity and adjacency based prefetching for efficient IPTV channel navigation. IEEE Transactions on Consumer Electronics, 2011, 57, 1135-1140.	3.0	7
64	FeGC: An efficient garbage collection scheme for flash memory based storage systems. Journal of Systems and Software, 2011, 84, 1507-1523.	3.3	43
65	Channel reordering and prefetching schemes for efficient IPTV channel navigation. IEEE Transactions on Consumer Electronics, 2010, 56, 483-487.	3.0	24
66	Block level buffer management for video streaming services in IPTV environments. IEEE Transactions on Consumer Electronics, 2010, 56, 1809-1813.	3.0	4
67	LBM: a low-power buffer management policy for heterogeneous storage in mobile consumer devices. IEEE Transactions on Consumer Electronics, 2010, 56, 2387-2392.	3.0	5
68	Unifying Buffer Replacement and Prefetching with Data Migration for Heterogeneous Storage Devices. , 2010, , .		1
69	Characterizing virtual memory write references for efficient page replacement in NAND flash memory. , 2009, , .		2
70	Buffer Cache Management for Combined MLC and SLC Flash Memories Using both Volatile and Nonvolatile RAMs. , 2009, , .		4
71	G-MST: A dynamic group-based scheduling algorithm for MEMS-based mobile storage devices. IEEE Transactions on Consumer Electronics, 2009, 55, 570-575.	3.0	1
72	Popular channel concentration schemes for efficient channel navigation in internet protocol televisions. IEEE Transactions on Consumer Electronics, 2009, 55, 1945-1949.	3.0	18

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73	A cost-aware page replacement algorithm for NAND flash based mobile embedded systems. , 2009, , .		14
74	Replacement and swapping strategy to improve read performance of portable consumer devices using compressed file systems. IEEE Transactions on Consumer Electronics, 2008, 54, 551-559.	3.0	2
75	An intelligent channel navigation scheme for DTV channel selectors. IEEE Transactions on Consumer Electronics, 2008, 54, 1098-1102.	3.0	13
76	Implementation of the storage manager for an IPTV set-top box. IEEE Transactions on Consumer Electronics, 2008, 54, 1770-1775.	3.0	9
77	Popularity and prefix aware interval caching for multimedia streaming servers. , 2008, , .		8
78	Vector Read: Exploiting the Read Performance of Hybrid NAND Flash. , 2008, , .		2
79	Caching and Data Allocation for Streaming Service in MEMS-Based Storage. , 2008, , .		1
80	Dynamic Group-based Scheduling for Two Dimensional Seek Space in MEMS-based Storage. , 2007, , .		0
81	LeCramFS: an efficient compressed file system for flash-based portable consumer devices. IEEE Transactions on Consumer Electronics, 2007, 53, 481-488.	3.0	23
82	Considering User Behavior and Multiple QoS Supports in Multimedia Streaming Caching. Journal of Signal Processing Systems, 2007, 46, 113-122.	1.0	2
83	Data Allocation in MEMS-based Mobile Storage Devices. IEEE Transactions on Consumer Electronics, 2006, 52, 472-476.	3.0	8
84	Personalized recommendation schemes for DTV channel selectors. IEEE Transactions on Consumer Electronics, 2006, 52, 1064-1068.	3.0	20
85	Buffer management for heterogeneous resolution display in home VOD services. IEEE Transactions on Consumer Electronics, 2006, 52, 1112-1117.	3.0	6
86	Web cache management based on the expected cost of web objects. Information and Software Technology, 2005, 47, 609-621.	3.0	4
87	A compressed display technique for 240 x 320 resolution personal digital assistants (pdas). IEEE Transactions on Consumer Electronics, 2005, 51, 1268-1272.	3.0	4
88	A scalable Web cache sharing scheme. Information Processing Letters, 2004, 91, 227-232.	0.4	0
89	A shared cache solution for the home Internet gateway. IEEE Transactions on Consumer Electronics, 2004, 50, 168-172.	3.0	6
90	Popularity-aware interval caching for multimedia streaming servers. Electronics Letters, 2003, 39, 1555.	0.5	16

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91	Characterization of Web Reference Behavior Revisited: Evidence for Dichotomized Cache Management. Lecture Notes in Computer Science, 2003, , 1018-1027.	1.0	4
92	Directory-Based Coordinated Caching in Shared Web Proxies. Lecture Notes in Computer Science, 2003, , 1010-1017.	1.0	1
93	Replica-aware caching for Web proxies. Computer Communications, 2002, 25, 183-188.	3.1	13
94	An energy-aware elevator group control system. , 0, , .		8
95	Parallelism-Aware Request Scheduling for MEMS-based Storage Devices. , 0, , .		4