

# Toni Cortes

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

869  
citations

759233

12  
h-index

642732

23  
g-index

70  
all docs

70  
docs citations

70  
times ranked

671  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Arbitration Policies for On-Demand User-Level I/O Forwarding on HPC Platforms. , 2021, , .   |     | 2         |
| 2  | Simurgh. , 2021, , .   |     | 8         |
| 3  | Revisiting active object stores: Bringing data locality to the limit with NVM. Future Generation Computer Systems, 2021, , .             | 7.5 | 1         |
| 4  | CAPre: Code-Analysis based Prefetching for Persistent Object Stores. Future Generation Computer Systems, 2020, 111, 491-506.             | 7.5 | 3         |
| 5  | GekkoFS " A Temporary Burst Buffer File System for HPC Applications. Journal of Computer Science and Technology, 2020, 35, 72-91.        | 1.5 | 23        |
| 6  | Ad Hoc File Systems for High-Performance Computing. Journal of Computer Science and Technology, 2020, 35, 4-26.                          | 1.5 | 20        |
| 7  | Freezing time emulating new and faster devices with virtual machines. CCF Transactions on High Performance Computing, 2020, 2, 3-15.     | 1.7 | 0         |
| 8  | On server-side file access pattern matching. , 2019, , .   |     | 7         |
| 9  | GekkoFS - A Temporary Distributed File System for HPC Applications. , 2018, , .  |     | 35        |
| 10 | Freezing Time: A New Approach for Emulating Fast Storage Devices Using VM. , 2018, , .   |     | 2         |
| 11 | PyCOMPSs: Parallel computational workflows in Python. International Journal of High Performance Computing Applications, 2017, 31, 66-82. | 3.7 | 88        |
| 12 | Dataclay: A distributed data store for effective inter-player data sharing. Journal of Systems and Software, 2017, 131, 129-145.         | 4.5 | 19        |
| 13 | An Empirical Evaluation of How the Network Impacts the Performance and Energy Efficiency in RAMCloud. , 2017, , .                        |     | 0         |
| 14 | Improving OpenStack Swift interaction with the I/O Stack to Enable Software Defined Storage. , 2017, , .                                 |     | 3         |
| 15 | Characterizing Performance and Energy-Efficiency of the RAMCloud Storage System. , 2017, , .   |     | 1         |
| 16 | A Fault-Tolerant Algorithm For Distributed Resource Allocation. IEEE Latin America Transactions, 2017, 15, 2152-2163.                    | 1.6 | 2         |
| 17 | Predicting Access to Persistent Objects Through Static Code Analysis. Communications in Computer and Information Science, 2017, , 54-62. | 0.5 | 1         |
| 18 | IOStack: Software-Defined Object Storage. IEEE Internet Computing, 2016, 20, 10-18.  | 3.3 | 20        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | File System Scalability with Highly Decentralized Metadata on Independent Storage Devices. , 2016, , .   |     | 15        |
| 20 | Improving I/O Performance Through an In-Kernel Disk Simulator. Computer Journal, 2016, 59, 1433-1452.  | 2.4 | 0         |
| 21 | Fusing Storage and Computing for the Domain of Business Intelligence and Analytics – Research Opportunities. , 2015, , .   |     | 0         |
| 22 | dataClay: The Integration of Persistent Data, Parallel Programming Models, and True Sharing. , 2015, , .   |     | 0         |
| 23 | Performance Impacts with Reliable Parallel File Systems at Exascale Level. Lecture Notes in Computer Science, 2015, , 277-288.                                   | 1.3 | 0         |
| 24 | Random Slicing. ACM Transactions on Storage, 2014, 10, 1-35.   | 2.1 | 8         |
| 25 | A general framework for dynamic and automatic I/O scheduling in hard and solid-state drives. Journal of Parallel and Distributed Computing, 2014, 74, 2380-2391. | 4.1 | 0         |
| 26 | DYON: Managing a New Scheduling Class to Improve System Performance in Multicore Systems. Lecture Notes in Computer Science, 2014, , 759-768.                    | 1.3 | 0         |
| 27 | Towards DaaS 2.0: Enriching Data Models. , 2013, , .   |     | 3         |
| 28 | Better Cloud Storage Usability through Name Space Virtualization. , 2013, , .  |     | 1         |
| 29 | Direct lookup and hash-based metadata placement for local file systems. , 2013, , .  |     | 25        |
| 30 | DADS. , 2012, , .  |     | 1         |
| 31 | Analyzing Long-Term Access Locality to Find Ways to Improve Distributed Storage Systems. , 2012, , .   |     | 8         |
| 32 | A study on data deduplication in HPC storage systems. , 2012, , .  |     | 69        |
| 33 | Automatic I/O Scheduler Selection through Online Workload Analysis. , 2012, , .  |     | 3         |
| 34 | An autonomic framework for enhancing the quality of data grid services. Future Generation Computer Systems, 2012, 28, 1005-1016.                                 | 7.5 | 4         |
| 35 | Reliable and randomized data distribution strategies for large scale storage systems. , 2011, , .  |     | 19        |
| 36 | A high performance suite of data services for grids. Future Generation Computer Systems, 2010, 26, 622-632.  | 7.5 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Reducing data access latency in SDSM systems using runtime optimizations. , 2010, , .  |     | 0         |
| 38 | XtreemOS Application Execution Management: A scalable approach. , 2010, , .  |     | 1         |
| 39 | Using filesystem virtualization to avoid metadata bottlenecks. , 2010, , .   |     | 4         |
| 40 | Simultaneous Evaluation of Multiple I/O Strategies. , 2010, , .  |     | 4         |
| 41 | HRaidTools: an on-line suite of simulation tools for heterogeneous RAID systems. , 2010, , .   |     | 0         |
| 42 | XtreemOS-MD: Grid Computing from Mobile Devices. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 45-58. | 0.3 | 2         |
| 43 | FaTLease: scalable fault-tolerant lease negotiation with Paxos. Cluster Computing, 2009, 12, 175-188.  | 5.0 | 2         |
| 44 | Scalable RDMA performance in PGAS languages. , 2009, , .   |     | 16        |
| 45 | The XtreemFS architectureâ€”a case for objectâ€based file systems in Grids. Concurrency Computation Practice and Experience, 2008, 20, 2049-2060.                            | 2.2 | 70        |
| 46 | Distributing Orthogonal Redundancy on Adaptive Disk Arrays. Lecture Notes in Computer Science, 2008, , 914-931.  | 1.3 | 6         |
| 47 | Evaluating the Effectiveness of REDCAP to Recover the Locality Missed by Today's Linux Systems. , 2008, , .  |     | 3         |
| 48 | FaTLease. , 2008, , .  |     | 3         |
| 49 | The Design of New Journaling File Systems: The DualFS Case. IEEE Transactions on Computers, 2007, 56, 267-281.   | 3.4 | 16        |
| 50 | Handling heterogeneous storage devices in clusters. , 2007, , .  |     | 0         |
| 51 | The RAM Enhanced Disk Cache Project (REDCAP). , 2007, , .  |     | 7         |
| 52 | Improving GridFTP transfers by means of a multiagent parallel file system1. Multiagent and Grid Systems, 2007, 3, 441-451.   | 0.9 | 0         |
| 53 | Increasing Parallelism for Workflows in the Grid. Lecture Notes in Computer Science, 2007, , 415-424.  | 1.3 | 0         |
| 54 | Adaptive Data Block Placement Based on Deterministic Zones (AdaptiveZ). , 2007, , 1214-1232.   |     | 2         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Running OpenMP applications efficiently on an everything-shared SDSM. Journal of Parallel and Distributed Computing, 2006, 66, 647-658. | 4.1 | 17        |
| 56 | Increasing the capacity of RAID5 by online gradual assimilation. , 2004, , .  |     | 42        |
| 57 | Autonomic Storage System Based on Automatic Learning. Lecture Notes in Computer Science, 2004, , 399-409.                               | 1.3 | 3         |
| 58 | Taking advantage of heterogeneity in disk arrays. Journal of Parallel and Distributed Computing, 2003, 63, 448-464.                     | 4.1 | 14        |
| 59 | DualFS. , 2002, , .   |     | 21        |
| 60 | Single System Image. International Journal of High Performance Computing Applications, 2001, 15, 124-135.                               | 3.7 | 57        |
| 61 | Parallel I/O and Storage Technology. Lecture Notes in Computer Science, 2001, , 887-888.  | 1.3 | 0         |
| 62 | Swap compression: resurrecting old ideas. Software - Practice and Experience, 2000, 30, 567-587.  | 3.6 | 7         |
| 63 | Design issues of a cooperative cache with no coherence problems. , 1997, , .  |     | 8         |
| 64 | Avoiding the cache-coherence problem in a parallel/distributed file system. Lecture Notes in Computer Science, 1997, , 860-869.         | 1.3 | 6         |
| 65 | Analyzing scheduling policies using Dimemas. Parallel Computing, 1997, 23, 23-34.   | 2.1 | 26        |
| 66 | PACA: A cooperative file system cache for parallel machines. Lecture Notes in Computer Science, 1996, , 475-486.                        | 1.3 | 13        |