

Hartmut Kaiser

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

331
citations

1478505

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1872680

6
g-index

26
all docs

26
docs citations

26
times ranked

160
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards superior software portability with SHAD and HPX C++ libraries. , 2022, , .		0
2	<scp>octo-tiger</scp>: a new, 3D hydrodynamic code for stellar mergers that uses <scp>hpx</scp> parallelization. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5345-5382.	4.4	15
3	Beyond Fork-Join: Integration of Performance Portable Kokkos Kernels with HPX. , 2021, , .		5
4	Memory reduction using a ring abstraction over GPU RDMA for distributed quantum Monte Carlo solver. , 2021, , .		1
5	Octo-Tigerâ€™s New Hydro Module and Performance Using HPX+CUDA on ORNLâ€™s Summit. , 2021, , .		5
6	Parallel SIMD - A Policy Based Solution for Free Speed-Up using C++ Data-Parallel Types. , 2021, , .		3
7	An asynchronous and task-based implementation of peridynamics utilizing HPXâ€™the C++ standard library for parallelism and concurrency. SN Applied Sciences, 2020, 2, 1.	2.9	10
8	Performance Analysis of a Quantum Monte Carlo Application on Multiple Hardware Architectures Using the HPX Runtime. , 2020, , .		3
9	HPX - The C++ Standard Library for Parallelism and Concurrency. Journal of Open Source Software, 2020, 5, 2352.	4.6	55
10	Deploying a Task-based Runtime System on Raspberry Pi Clusters. , 2020, , .		7
11	Towards a Scalable and Distributed Infrastructure for Deep Learning Applications. , 2020, , .		4
12	Towards Distributed Software Resilience in Asynchronous Many- Task Programming Models. , 2020, , .		1
13	Distributed Asynchronous Array Computing with the JetLag Environment. , 2020, , .		1
14	Runtime Adaptive Task Inlining on Asynchronous Multitasking Runtime Systems. , 2019, , .		6
15	Harnessing billions of tasks for a scalable portable hydrodynamic simulation of the merger of two stars. International Journal of High Performance Computing Applications, 2019, 33, 699-715.	3.7	16
16	Scheduling Optimization of Parallel Linear Algebra Algorithms Using Supervised Learning. , 2019, , .		3
17	Asynchronous Execution of Python Code on Task-Based Runtime Systems. , 2018, , .		12
18	Integration of CUDA Processing within the C++ Library for Parallelism and Concurrency (HPX). , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Methodology for Adaptive Active Message Coalescing in Task Based Runtime Systems. , 2018, , .		8
20	HPX Smart Executors. , 2017, , .		6
21	Using SYCL as an Implementation Framework for HPX.Compute. , 2017, , .		14
22	PXFS: A persistent storage model for extreme Scale. , 2014, , .		1
23	Improving the scalability of parallel <i>N</i> -body applications with an event-driven constraint-based execution model. International Journal of High Performance Computing Applications, 2012, 26, 319-332.	3.7	22
24	Preliminary design examination of the ParalleX system from a software and hardware perspective. Performance Evaluation Review, 2011, 38, 81-87.	0.6	26
25	ParalleX An Advanced Parallel Execution Model for Scaling-Impaired Applications. , 2009, , .		104