Alessandro Pellegrini

List of Publications by Year in descending order

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| | | 1307594 | 1199594 |
|----------|----------------|--------------|----------------|
| 82 | 546 | 7 | 12 |
| papers | citations | h-index | g-index |
| | | = | = |
| 83 | 83 | 83 | 222 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Towards Symmetric Multi-threaded Optimistic Simulation Kernels. , 2012, , . | | 40 |
| 2 | Autonomic State Management for Optimistic Simulation Platforms. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1560-1569. | 5.6 | 27 |
| 3 | Load sharing for optimistic parallel simulations on multi core machines. Performance Evaluation Review, 2012, 40, 2-11. | 0.6 | 26 |
| 4 | Transparently Mixing Undo Logs and Software Reversibility for State Recovery in Optimistic PDES. ACM Transactions on Modeling and Computer Simulation, 2017, 27, 1-26. | 0.8 | 24 |
| 5 | Di-DyMeLoR: Logging only Dirty Chunks for Efficient Management of Dynamic Memory Based Optimistic Simulation Objects. , 2009, , . | | 23 |
| 6 | The Ultimate Share-Everything PDES System. , 2018, , . | | 19 |
| 7 | Transparent multi-core speculative parallelization of DES models with event and cross-state dependencies. , 2014 , , . | | 17 |
| 8 | A Machine Learning-Based Framework for Building Application Failure Prediction Models. , 2015, , . | | 17 |
| 9 | Hijacker: Efficient static software instrumentation with applications in high performance computing: Poster paper., 2013,,. | | 16 |
| 10 | Autonomic Log/Restore for Advanced Optimistic Simulation Systems. , 2010, , . | | 15 |
| 11 | Hardware-Transactional-Memory Based Speculative Parallel Discrete Event Simulation of Very Fine Grain Models., 2015,,. | | 14 |
| 12 | OS-Based NUMA Optimization: Tackling the Case of Truly Multi-thread Applications with Non-partitioned Virtual Page Accesses. , $2016, , .$ | | 13 |
| 13 | A Lock-Free O(1) Event Pool and Its Application to Share-Everything PDES Platforms. , 2016, , . | | 13 |
| 14 | A Fine-Grain Time-Sharing Time Warp System. ACM Transactions on Modeling and Computer Simulation, 2017, 27, 1-25. | 0.8 | 13 |
| 15 | A Conflict-Resilient Lock-Free Calendar Queue for Scalable Share-Everything PDES Platforms. , 2017, , . | | 13 |
| 16 | Transparently Mixing Undo Logs and Software Reversibility for State Recovery in Optimistic PDES. , 2015, , . | | 12 |
| 17 | Transparent and Efficient Shared-State Management for Optimistic Simulations on Multi-core Machines. , 2012, , . | | 11 |
| 18 | Wait-Free Global Virtual Time Computation in Shared Memory TimeWarp Systems., 2014,,. | | 11 |

| # | Article | IF | Citations |
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| 19 | A flexible framework for accurate simulation of cloud in-memory data stores. Simulation Modelling Practice and Theory, 2015, 58, 219-238. | 3.8 | 11 |
| 20 | Simulation-Based Evolutionary Optimization of Air Traffic Management. IEEE Access, 2020, 8, 161551-161570. | 4.2 | 11 |
| 21 | The ROme OpTimistic Simulator: Core Internals and Programming Model. , 2011, , . | | 11 |
| 22 | Consistent and efficient output-streams management in optimistic simulation platforms. , 2013, , . | | 10 |
| 23 | Machine Learning for Achieving Self-* Properties and Seamless Execution of Applications in the Cloud. , $2015, , .$ | | 9 |
| 24 | NUMA Time Warp., 2015,,. | | 9 |
| 25 | Granular Time Warp Objects. , 2016, , . | | 9 |
| 26 | Cross-state events: A new approach to parallel discrete event simulation and its speculative runtime support. Journal of Parallel and Distributed Computing, 2019, 132, 48-68. | 4.1 | 9 |
| 27 | Multi-threaded Simulation of 4G Cellular Systems within the LTE-Sim Framework. , 2013, , . | | 8 |
| 28 | Proactive Cloud Management for Highly Heterogeneous Multi-cloud Infrastructures. , 2016, , . | | 7 |
| 29 | The ROme OpTimistic Simulator: A Tutorial. Lecture Notes in Computer Science, 2014, , 501-512. | 1.3 | 7 |
| 30 | RAMSES: Reversibility-Based Agent Modeling and Simulation Environment with Speculation-Support. Lecture Notes in Computer Science, 2015, , 466-478. | 1.3 | 7 |
| 31 | Proactive Scalability and Management of Resources in Hybrid Clouds via Machine Learning., 2015,,. | | 6 |
| 32 | Transparent Speculative Parallelization of Discrete Event Simulation Applications Using Global Variables. International Journal of Parallel Programming, 2016, 44, 1200-1247. | 1.5 | 6 |
| 33 | Autonomic rejuvenation of cloud applications as a countermeasure to software anomalies. Software - Practice and Experience, 2021, 51, 46-71. | 3.6 | 6 |
| 34 | Adaptive Transactional Memories: Performance and Energy Consumption Tradeoffs. , 2014, , . | | 5 |
| 35 | Anonymous Readers Counting: A Wait-Free Multi-Word Atomic Register Algorithm for Scalable Data Sharing on Multi-Core Machines. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 286-299. | 5.6 | 5 |
| 36 | A Framework for High Performance Simulation of Transactional Data Grid Platforms. , 2013, , . | | 5 |

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| 37 | Benchmarking Memory Management Capabilities within ROOT-Sim., 2009, , . | | 4 |
| 38 | Machine learning-based management of cloud applications in hybrid clouds: A Hadoop case study. , 2017, , . | | 4 |
| 39 | Adaptive Model-Based Scheduling in Software Transactional Memory. IEEE Transactions on Computers, 2020, 69, 621-632. | 3.4 | 4 |
| 40 | Programmability and Performance of Parallel ECS-Based Simulation of Multi-agent Exploration Models. Lecture Notes in Computer Science, 2014, , 395-406. | 1.3 | 4 |
| 41 | Transparent Support for Partial Rollback in Software Transactional Memories. Lecture Notes in Computer Science, 2013, , 583-594. | 1.3 | 4 |
| 42 | A Distributed Shared Memory Middleware for Speculative Parallel Discrete Event Simulation. ACM Transactions on Modeling and Computer Simulation, 2020, 30, 1-26. | 0.8 | 4 |
| 43 | An Evolutionary Algorithm to Optimize Log/Restore Operations within Optimistic Simulation Platforms. , $2011, \ldots$ | | 4 |
| 44 | Speculative Distributed Simulation of VeryÂLargeÂSpikingÂNeuralÂNetworks. , 2022, , . | | 4 |
| 45 | Configurable and Efficient Memory Access Tracing via Selective Expression-Based x86 Binary Instrumentation., 2016,,. | | 3 |
| 46 | An Agent-Based Simulation API for Speculative PDES Runtime Environments. , 2019, , . | | 3 |
| 47 | Hardware-Assisted Incremental Checkpointing in Speculative Parallel Discrete Event Simulation. , 2019, , . | | 3 |
| 48 | Mutable locks: Combining the best of spin and sleep locks. Concurrency Computation Practice and Experience, 2020, 32, e5858. | 2.2 | 3 |
| 49 | On power capping and performance optimization of multithreaded applications. Concurrency Computation Practice and Experience, 2021, 33, e6205. | 2.2 | 3 |
| 50 | Agent-based Modeling and Simulation for Emergency Scenarios: A Holistic Approach. , 2020, , . | | 3 |
| 51 | Dealing with Reversibility of Shared Libraries in PDES. , 2017, , . | | 3 |
| 52 | Exploiting Inter-Processor-Interrupts for Virtual-Time Coordination in Speculative Parallel Discrete Event Simulation., 2020,,. | | 3 |
| 53 | A load-sharing architecture for high performance optimistic simulations on multi-core machines. , 2012, , . | | 2 |
| 54 | Time-Sharing Time Warp via Lightweight Operating System Support. , 2015, , . | | 2 |

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| 55 | Preemptive Software Transactional Memory. , 2017, , . | | 2 |
| 56 | Towards a fully non-blocking share-everything PDES platform. , 2017, , . | | 2 |
| 57 | Prompt application-transparent transaction revalidation in software transactional memory. , 2017, , . | | 2 |
| 58 | A Non-blocking Buddy System for Scalable Memory Allocation on Multi-core Machines. , 2018, , . | | 2 |
| 59 | Cache-Aware Memory Manager for Optimistic Simulations. , 2012, , . | | 2 |
| 60 | A Power Cap Oriented Time Warp Architecture. , 2018, , . | | 2 |
| 61 | Porting Event &Cross-State Synchronization to the Cloud. , 2018, , . | | 2 |
| 62 | Approximated Rollbacks. , 2020, , . | | 2 |
| 63 | Assessing load-sharing within optimistic simulation platforms. , 2012, , . | | 1 |
| 64 | Mixing Hardware and Software Reversibility for Speculative Parallel Discrete Event Simulation. Lecture Notes in Computer Science, 2016, , 137-152. | 1.3 | 1 |
| 65 | A Wait-Free Multi-word Atomic (1,N) Register for Large-Scale Data Sharing on Multi-core Machines. , 2017, , . | | 1 |
| 66 | A non-blocking global virtual time algorithm with logarithmic number of memory operations. , 2017, , . | | 1 |
| 67 | A Study on the Parallelization of Terrain-Covering Ant Robots Simulations. Lecture Notes in Computer Science, 2014, , 585-594. | 1.3 | 1 |
| 68 | Analysis and optimization of a demographic simulator for parallel environments. , 2015, , . | | 0 |
| 69 | Machine Learning-Based Elastic Cloud Resource Provisioning in the Solvency II Framework. , 2016, , . | | 0 |
| 70 | Optimizing memory management for optimistic simulation with reinforcement learning. , 2016, , . | | 0 |
| 71 | Programming agent-based demographic models with cross-state and message-exchange dependencies: A study with speculative PDES and automatic load-sharing. , 2016, , . | | 0 |
| 72 | ORCHESTRA: An asynchronous wait-free distributed GVT algorithm., 2017,,. | | 0 |

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| 73 | OPTIMIZING SIMULATION ON SHARED-MEMORY PLATFORMS: THE SMART CITIES CASE. , 2018, , . | | 0 |
| 74 | NBBS: A Non-Blocking Buddy System for Multi-core Machines. , 2019, , . | | 0 |
| 75 | NUMA-Aware Non-Blocking Calendar Queue. , 2020, , . | | 0 |
| 76 | Support to Design for Air Traffic Management: An Approach with Agent-Based Modelling and Evolutionary Search. International Journal of Aviation, Aeronautics, and Aerospace, 0, , . | 0.2 | 0 |
| 77 | NBBS: A Non-Blocking Buddy System for Multi-Core Machines. IEEE Transactions on Computers, 2022, 71, 599-612. | 3.4 | 0 |
| 78 | Replication of Computational Results Report for $\hat{a} \in \mathbb{C}$ Green Simulation with Database Monte Carlo $\hat{a} \in \mathbb{C}$ ACM Transactions on Modeling and Computer Simulation, 2021, 31, 1-4. | 0.8 | 0 |
| 79 | Load-Sharing Policies in Parallel Simulation of Agent-Based Demographic Models. Lecture Notes in Computer Science, 2017, , 334-346. | 1.3 | 0 |
| 80 | Layered architectural approach for distributed simulation systems: The SimArch case., 2018,, 264-293. | | 0 |
| 81 | Autonomic Power Management in Speculative Simulation Runtime Environments. , 2020, , . | | 0 |
| 82 | Editorial to the Special Issue on the Principles of Advanced Discrete Simulation (PADS). ACM Transactions on Modeling and Computer Simulation, 2020, 30, 1-2. | 0.8 | 0 |