

# Emilio E Luque

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

244  
papers

1,172  
citations

16  
h-index

24  
g-index

293  
ext. papers

1,389  
ext. citations

1.6  
avg, IF

4.24  
L-index

#	Paper	IF	Citations
244	Optimization of Healthcare Emergency Departments by Agent-Based Simulation. <i>Procedia Computer Science</i> , <b>2011</b> , 4, 1880-1889	1.6	54
243	An Agent-Based Decision Support System for Hospitals Emergency Departments. <i>Procedia Computer Science</i> , <b>2011</b> , 4, 1870-1879	1.6	50
242	Simulation Optimization for Healthcare Emergency Departments. <i>Procedia Computer Science</i> , <b>2012</b> , 9, 1464-1473	1.6	48
241	Adaptive Scheduling for Master-Worker Applications on the Computational Grid. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 214-227	0.9	40
240	A simulation and optimization based method for calibrating agent-based emergency department models under data scarcity. <i>Computers and Industrial Engineering</i> , <b>2017</b> , 103, 300-309	6.4	35
239	Enhancing wildland fire prediction on cluster systems applying evolutionary optimization techniques. <i>Future Generation Computer Systems</i> , <b>2005</b> , 21, 61-67	7.5	30
238	Wildland fire growth prediction method based on Multiple Overlapping Solution. <i>Journal of Computational Science</i> , <b>2010</b> , 1, 229-237	3.4	29
237	Modeling Master/Worker applications for automatic performance tuning. <i>Parallel Computing</i> , <b>2006</b> , 32, 568-589	1	29
236	Parallel Application Signature for Performance Analysis and Prediction. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2015</b> , 26, 2009-2019	3.7	25
235	Design and implementation of a dynamic tuning environment. <i>Journal of Parallel and Distributed Computing</i> , <b>2007</b> , 67, 474-490	4.4	22
234	An asynchronous and iterative load balancing algorithm for discrete load model. <i>Journal of Parallel and Distributed Computing</i> , <b>2002</b> , 62, 1729-1746	4.4	22
233	Using an Agent-based Simulation for Predicting the Effects of Patients Derivation Policies in Emergency Departments. <i>Procedia Computer Science</i> , <b>2013</b> , 18, 641-650	1.6	21
232	Towards an Agent-Based Simulation of Hospital Emergency Departments <b>2009</b> ,		21
231	Applying a Dynamic Data Driven Genetic Algorithm to Improve Forest Fire Spread Prediction. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 36-45	0.9	21
230	An agent-based model for quantitatively analyzing and predicting the complex behavior of emergency departments. <i>Journal of Computational Science</i> , <b>2017</b> , 21, 11-23	3.4	17
229	MATE: Monitoring, Analysis and Tuning Environment for parallel/distributed applications. <i>Concurrency Computation Practice and Experience</i> , <b>2007</b> , 19, 1517-1531	1.4	17
228	A Hybrid Simulation Model to Test Behaviour Designs in an Emergency Evacuation. <i>Procedia Computer Science</i> , <b>2012</b> , 9, 266-275	1.6	16

227	Individual-oriented Model Crowd Evacuations Distributed Simulation. <i>Procedia Computer Science</i> , <b>2014</b> , 29, 1600-1609	1.6	14
226	ABMS optimization for emergency departments <b>2012</b> ,		12
225	Hybrid Message Pessimistic Logging. Improving current pessimistic message logging protocols. <i>Journal of Parallel and Distributed Computing</i> , <b>2017</b> , 104, 206-222	4.4	11
224	Quantitative Evaluation of Decision Effects in the Management of Emergency Department Problems. <i>Procedia Computer Science</i> , <b>2015</b> , 51, 433-442	1.6	11
223	Evacuation Simulation Supporting High Level Behaviour-based Agents. <i>Procedia Computer Science</i> , <b>2013</b> , 18, 1495-1504	1.6	11
222	High performance distributed cluster-based individual-oriented fish school simulation. <i>Procedia Computer Science</i> , <b>2011</b> , 4, 76-85	1.6	10
221	MATE: Dynamic Performance Tuning Environment. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 98-107	0.9	10
220	Proximity Load Balancing for Distributed Cluster-based Individual-oriented Fish School Simulations. <i>Procedia Computer Science</i> , <b>2012</b> , 9, 328-337	1.6	9
219	Scalable dynamic Monitoring, Analysis and Tuning Environment for parallel applications. <i>Journal of Parallel and Distributed Computing</i> , <b>2010</b> , 70, 330-337	4.4	9
218	The Convergence of Realistic Distributed Load-Balancing Algorithms. <i>Theory of Computing Systems</i> , <b>2007</b> , 41, 609-618	0.6	9
217	Care HPS: A high performance simulation tool for parallel and distributed agent-based modeling. <i>Future Generation Computer Systems</i> , <b>2017</b> , 68, 59-73	7.5	8
216	Crowd Evacuations SaaS: An ABM Approach. <i>Procedia Computer Science</i> , <b>2015</b> , 51, 473-482	1.6	8
215	Extraction of Parallel Application Signatures for Performance Prediction <b>2010</b> ,		8
214	Impact of parallel programming models and CPUs clock frequency on energy consumption of HPC systems <b>2011</b> ,		8
213	Learning parallel programming: a challenge for university students. <i>Procedia Computer Science</i> , <b>2010</b> , 1, 875-883	1.6	8
212	Optimizing Latency under Throughput Requirements for Streaming Applications on Cluster Execution <b>2005</b> ,		8
211	Clustering and reassignment-based mapping strategy for message-passing architectures. <i>Journal of Systems Architecture</i> , <b>2003</b> , 48, 267-283	5.5	8
210	Using PDES to Simulate Individual-Oriented Models in Ecology: A Case Study. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 107-116	0.9	8

209	Evolutionary Optimization Techniques on Computational Grids. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 513-522	0.9	8
208	Dynamic and Distributed Multipath Routing Policy for High-Speed Cluster Networks <b>2009</b> ,		7
207	Clustering and reassignment-based mapping strategy for message-passing architectures		7
206	An Adaptive System for Forest Fire Behavior Prediction <b>2008</b> ,		7
205	Software probes: towards a quick method for machine characterization and application performance prediction <b>2008</b> ,		7
204	Increasing the cluster availability using RADIC <b>2006</b> ,		7
203	The KScalar simulator. <i>Journal on Educational Resources in Computing</i> , <b>2002</b> , 2, 73-116		7
202	Coscheduling and Multiprogramming Level in a Non-dedicated Cluster. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 327-336	0.9	7
201	CISNE: A New Integral Approach for Scheduling Parallel Applications on Non-dedicated Clusters. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 220-230	0.9	7
200	An Intelligent Management of Fault Tolerance in Cluster Using RADICMPI. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 150-157	0.9	7
199	Fault tolerance at system level based on RADIC architecture. <i>Journal of Parallel and Distributed Computing</i> , <b>2015</b> , 86, 98-111	4.4	6
198	Simulating the micro-level behavior of emergency department for macro-level features prediction <b>2015</b> ,		6
197	Simulation and Big Data: A Way to Discover Unusual Knowledge in Emergency Departments: Work-in-Progress Paper <b>2014</b> ,		6
196	A reconfigurable cache memory with heterogeneous banks <b>2010</b> ,		6
195	Parallel application signature <b>2009</b> ,		6
194	AUTOMATIC PERFORMANCE ANALYSIS AND DYNAMIC TUNING OF DISTRIBUTED APPLICATIONS. <i>Parallel Processing Letters</i> , <b>2003</b> , 13, 169-187	0.3	6
193	Performance prediction using an application-oriented mapping tool <b>2004</b> ,		6
192	Performance comparison of dynamic load-balancing strategies for distributed computing		6

191	A Fuzzy Logic Fish School Model. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 13-22	0.9	6
190	Automatic Performance Analysis of Master/Worker PVM Applications with Kpi. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 47-55	0.9	6
189	Agent Based Model and Simulation of MRSA Transmission in Emergency Departments. <i>Procedia Computer Science</i> , <b>2015</b> , 51, 443-452	1.6	5
188	A Tool for Selecting the Right Target Machine for Parallel Scientific Applications. <i>Procedia Computer Science</i> , <b>2013</b> , 18, 1824-1833	1.6	5
187	An Innovative Teaching Strategy to Understand High-Performance Systems through Performance Evaluation. <i>Procedia Computer Science</i> , <b>2012</b> , 9, 1733-1742	1.6	5
186	Modeling Parallel Scientific Applications through their Input/Output Phases <b>2012</b> ,		5
185	Selection methods for interactive creation and management of objects in 3D immersive environments. <i>Procedia Computer Science</i> , <b>2010</b> , 1, 2609-2617	1.6	5
184	Designing an effective P2P system for a VoD system to exploit the multicast communication. <i>Journal of Parallel and Distributed Computing</i> , <b>2010</b> , 70, 1175-1192	4.4	5
183	Evaluation of the field-programmable cache <b>2006</b> ,		5
182	Designing a Video-on-Demand System for a Brazilian High Speed Network <b>2006</b> ,		5
181	Dynamic Performance Tuning Supported by Program Specification. <i>Scientific Programming</i> , <b>2002</b> , 10, 35-44	1.4	5
180	Dynamic microprogramming in computer architecture redefinition. <i>Euromicro Newsletter</i> , <b>1980</b> , 6, 98-103		5
179	Microprogramming: A tool for vertical migration. <i>Microprocessing and Microprogramming</i> , <b>1981</b> , 8, 219-227		5
178	A Microprocessor-Based Digital Control Course. <i>IEEE Transactions on Education</i> , <b>1983</b> , 26, 107-111	2.1	5
177	Dynamic Distributed Collaborative Merging Policy to Optimize the Multicasting Delivery Scheme. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 879-889	0.9	5
176	Dynamic Pipeline Mapping (DPM). <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 295-304	0.9	5
175	On-Line Performance Modeling for MPI Applications. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 68-77	0.9	5
174	Automatic Tuning of Master/Worker Applications. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 95-103	0.9	5

173	Improved Prediction Methods for Wildfires Using High Performance Computing: A Comparison. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 539-546	0.9	5
172	P3S: A Methodology to Analyze and Predict Application Scalability. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2018</b> , 29, 642-658	3.7	4
171	Improving Communication Patterns for Distributed Cluster-based Individual-oriented Fish School Simulations. <i>Procedia Computer Science</i> , <b>2013</b> , 18, 702-711	1.6	4
170	Support managing population aging stress of emergency departments in a computational way. <i>Procedia Computer Science</i> , <b>2017</b> , 108, 149-158	1.6	4
169	Optimization of emergency departments by agent-based modeling and simulation <b>2012</b> ,		4
168	Analytical Performance Prediction for Iterative Reconstruction Techniques in Electron Tomography of Biological Structures. <i>International Journal of High Performance Computing Applications</i> , <b>2010</b> , 24, 457-468	1.8	4
167	A Performance Tuning Strategy for Complex Parallel Application <b>2010</b> ,		4
166	<b>2009</b> ,		4
165	High performance individual-oriented simulation using complex models. <i>Procedia Computer Science</i> , <b>2010</b> , 1, 447-456	1.6	4
164	Cooperating Coscheduling in a Non-dedicated Cluster. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 212-217	0.9	4
163	Distributed P2P merging policy to decentralize the multicasting delivery		4
162	Simulation and visualization tools for link-based parallel architectures. <i>Microprocessing and Microprogramming</i> , <b>1991</b> , 32, 479-486		4
161	Providing Non-stop Service for Message-Passing Based Parallel Applications with RADIC. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 58-67	0.9	4
160	Automatic Generation of Dynamic Tuning Techniques. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 13-22	0.9	4
159	A Reconfigurable Data Cache for Adaptive Processors. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 230-242	0.9	4
158	Integrating Automatic Techniques in a Performance Analysis Session. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 173-177	0.9	4
157	Predictive Coscheduling Implementation in a Non-dedicated Linux Cluster. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 732-742	0.9	4
156	Dynamic Performance Tuning of Distributed Programming Libraries. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 191-200	0.9	4

155	Coscheduling under Memory Constraints in a NOW Environment. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 41-65	0.9	4
154	Double P-Tree: A Distributed Architecture for Large-Scale Video-on-Demand. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 816-825	0.9	4
153	Strip Partitioning for Ant Colony Parallel and Distributed Discrete-event Simulation. <i>Procedia Computer Science</i> , <b>2015</b> , 51, 483-492	1.6	3
152	Computing, a Powerful Tool for Improving the Parameters Simulation Quality in Flood Prediction. <i>Procedia Computer Science</i> , <b>2014</b> , 29, 299-309	1.6	3
151	Analyzing the Parallel I/O Severity of MPI Applications <b>2017</b> ,		3
150	An approach for an efficient execution of SPMD applications on Multi-core environments. <i>Future Generation Computer Systems</i> , <b>2017</b> , 66, 11-26	7.5	3
149	Scheduling model for non-critical patients admission into a hospital emergency department <b>2017</b> ,		3
148	Methodology for Performance Evaluation of the Input/Output System on Computer Clusters <b>2011</b> ,		3
147	What is Missing in Current Checkpoint Interval Models? <b>2011</b> ,		3
146	AMTHA: An Algorithm for Automatically Mapping Tasks to Processors in Heterogeneous Multiprocessor Architectures <b>2009</b> ,		3
145	Transparent fault tolerance middleware at user level <b>2012</b> ,		3
144	Performance models for dynamic tuning of parallel applications on Computational Grids <b>2008</b> ,		3
143	Cooperating CoScheduling: A Coscheduling Proposal Aimed at Non-Dedicated Heterogeneous NOWs. <i>Journal of Computer Science and Technology</i> , <b>2007</b> , 22, 695-710	1.7	3
142	Improving forest-fire prediction by applying a statistical approach. <i>Forest Ecology and Management</i> , <b>2006</b> , 234, S210	3.9	3
141	Between classical and ideal: enhancing wildland fire prediction using cluster computing. <i>Cluster Computing</i> , <b>2006</b> , 9, 329-343	2.1	3
140	IMPROVING BANDWIDTH EFFICIENCY IN DISTRIBUTED VIDEO-ON-DEMAND ARCHITECTURES. <i>Parallel Processing Letters</i> , <b>2003</b> , 13, 589-600	0.3	3
139	Efficient resource management applied to master-worker applications. <i>Journal of Parallel and Distributed Computing</i> , <b>2004</b> , 64, 767-773	4.4	3
138	Modeling master-worker applications in POETRIES		3

137	Automatic Tuning of Data Distribution Using Factoring in Master/Worker Applications. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 132-139	0.9	3
136	. <i>IEEE Transactions on Education</i> , <b>1989</b> , 32, 112-117	2.1	3
135	Tuning architecture via microprogramming. <i>Information Processing Letters</i> , <b>1980</b> , 11, 102-109	0.8	3
134	Implementing Explicit and Implicit Coscheduling in a PVM Environment. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 1165-1170	0.9	3
133	Improving Optimistic PDES in PVM Environments. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 304-312	0.9	3
132	Architectures for an Efficient Application Execution in a Collection of HNOWS. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 450-460	0.9	3
131	Accelerating Optimization of Input Parameters in Wildland Fire Simulation. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 1067-1074	0.9	3
130	Automatic Performance Analysis of Message Passing Applications Using the KappaPI 2 Tool. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 293-300	0.9	3
129	Using On-the-Fly Simulation for Estimating the Turnaround Time on Non-dedicated Clusters. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 177-187	0.9	3
128	Tuning Application in a Multi-cluster Environment. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 78-88	0.9	3
127	Increasing the Scalability and the Speedup of a Fish School Simulator. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 936-949	0.9	3
126	Challenges and Issues of the Integration of RADIC into Open MPI. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 73-83	0.9	3
125	Exploiting Throughput for Pipeline Execution in Streaming Image Processing Applications. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1095-1105	0.9	3
124	Exploiting Knowledge of Temporal Behaviour in Parallel Programs for Improving Distributed Mapping. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 262-271	0.9	3
123	Dynamic Performance Tuning Environment. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 36-45	0.9	3
122	Optimization of Fire Propagation Model Inputs: A Grand Challenge Application on Metacomputers. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 447-451	0.9	3
121	Predicting robustness against transient faults of MPI based programs. <i>International Journal of Computational Science and Engineering</i> , <b>2016</b> , 12, 155	0.4	2
120	A Hybrid MPI+OpenMP Solution of the Distributed Cluster-based Fish Schooling Simulator. <i>Procedia Computer Science</i> , <b>2014</b> , 29, 2111-2120	1.6	2



119	Optimal Run Length for Discrete-event Distributed Cluster-based Simulations. <i>Procedia Computer Science</i> , <b>2014</b> , 29, 73-83	1.6	2
118	Hybrid Message Logging. Combining advantages of Sender-based and Receiver-based Approaches. <i>Procedia Computer Science</i> , <b>2014</b> , 29, 2380-2390	1.6	2
117	A Fault Tolerance Manager with Distributed Coordinated Checkpoints for Automatic Recovery <b>2017</b> ,		2
116	A decision support system for hospital emergency departments designed using agent-based modeling and simulation <b>2012</b> ,		2
115	Multi-Collaboration Domain Multicast P2P Delivery Architecture for VoD System <b>2006</b> ,		2
114	Predicting the Best Mapping for Efficient Exploitation of Task and Data Parallelism. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 218-223	0.9	2
113	S2F2M Statistical System for Forest Fire Management. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 427-434	0.9	2
112	Evaluation of strategies to reduce the impact of machine reclaim in cycle-stealing environments		2
111	A quantitative approach for teaching parallel computing. <i>SIGCSE Bulletin</i> , <b>1992</b> , 24, 286-298	0	2
110	Designing parallel systems: a performance prediction problem. <i>Microprocessors and Microsystems</i> , <b>1992</b> , 16, 25-35	2.4	2
109	Impact of task duplication on static-scheduling performance in multiprocessor systems with variable execution-time tasks <b>1990</b> ,		2
108	Self-tuning machines. <i>Microprocessing and Microprogramming</i> , <b>1985</b> , 15, 195-201		2
107	Adjusting Time Slices to Apply Coscheduling Techniques in a Non-dedicated NOW. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 234-239	0.9	2
106	Applying Load Balancing in Data Parallel Applications Using DASUD. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 237-241	0.9	2
105	Efficient Execution on Long-Distance Geographically Distributed Dedicated Clusters. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 311-318	0.9	2
104	Performance and Power Evaluation of an Intelligently Adaptive Data Cache. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 363-375	0.9	2
103	Analysis of Checkpoint I/O Behavior. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 191-205	0.9	2
102	PIOM-PX: A Framework for Modeling the I/O Behavior of Parallel Scientific Applications. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 160-173	0.9	2

101	Fish Schools: PDES Simulation and Real Time 3D Animation. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 505-512	0.9	2
100	Improving Wildland Fire Prediction on MPI Clusters. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 520-528	0.9	2
99	Search of Performance Inefficiencies in Message Passing Applications with KappaPI 2 Tool <b>2006</b> , 409-419		2
98	Teaching Model for Computational Science and Engineering Programme. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 34-43	0.9	2
97	A Multipath Fault-Tolerant Routing Method for High-Speed Interconnection Networks. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 1078-1088	0.9	2
96	PAS2P Tool, Parallel Application Signature for Performance Prediction. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 293-302	0.9	2
95	Modeling Pipeline Applications in POETRIES. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 83-92	0.9	2
94	A Space and Time Sharing Scheduling Approach for PVM Non-dedicated Clusters. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 379-387	0.9	2
93	Efficient Execution of Scientific Computation on Geographically Distributed Clusters. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 691-698	0.9	2
92	Prediction of Energy Consumption by Checkpoint/Restart in HPC. <i>IEEE Access</i> , <b>2019</b> , 7, 71791-71803	3.5	1
91	A Method for Projections of the Emergency Department Behaviour by Non-Communicable Diseases From 2019 to 2039. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 2490-2498	7.2	1
90	An Intelligent Scheduling of Non-Critical Patients Admission for Emergency Department. <i>IEEE Access</i> , <b>2020</b> , 8, 9209-9220	3.5	1
89	Predictive and Distributed Routing Balancing, an Application-Aware Approach. <i>Procedia Computer Science</i> , <b>2013</b> , 18, 179-188	1.6	1
88	Simulating a Search Engine Service focusing on Network Performance. <i>Procedia Computer Science</i> , <b>2017</b> , 108, 79-88	1.6	1
87	<b>2015</b> ,		1
86	Tuning SPMD Applications in Order to Increase Performability <b>2013</b> ,		1
85	Methodology for Efficient Execution of SPMD Applications on Multicore Environments <b>2010</b> ,		1
84	Deadlock Avoidance for Interconnection Networks with Multiple Dynamic Faults <b>2010</b> ,		1

83	FT-DRB: A Method for Tolerating Dynamic Faults in High-Speed Interconnection Networks <b>2010</b> ,		1
82	Predictive and Distributed Routing Balancing for High Speed Interconnection Networks <b>2011</b> ,		1
81	Increasing the availability provided by RADIC with low overhead <b>2009</b> ,		1
80	Task distribution using factoring load balancing in MasterWorker applications. <i>Information Processing Letters</i> , <b>2009</b> , 109, 902-906	0.8	1
79	Predicting parallel applications performance using signatures: The workload effect <b>2011</b> ,		1
78	Fast-Response Dynamic Routing Balancing for high-speed interconnection networks <b>2009</b> ,		1
77	A tool for efficient execution of SPMD applications on multicore clusters. <i>Procedia Computer Science</i> , <b>2010</b> , 1, 2599-2608	1.6	1
76	Active learning processes to study memory hierarchy on Multicore systems. <i>Procedia Computer Science</i> , <b>2010</b> , 1, 921-930	1.6	1
75	Increasing the Performability of Computer Clusters Using RADIC II <b>2008</b> ,		1
74	A Computational Approach to TSP Performance Prediction Using Data Mining <b>2007</b> ,		1
73	Using Simulation, Historical and Hybrid Estimation Systems for Enhacing Job Scheduling on NOWs <b>2006</b> ,		1
72	DVoDP/sup 2/P: distributed P2P assisted multicast VoD architecture <b>2006</b> ,		1
71	POETRIES: Performance Oriented Environment for Transparent Resource-Management, Implementing End-User Parallel/Distributed Applications. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 141-148	0.8	1
70	Providing interactive video on demand services in distributed architecture <b>2003</b> ,		1
69	A Performance Prediction Model for Tomographic Reconstruction in Structural Biology. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 90-103	0.9	1
68	Exploitation of parallelism for applications with an input data stream: optimal resource-throughput tradeoffs		1
67	STW: SWITCH TIME WARP: A MODEL FOR ROLLBACK REDUCTION IN OPTIMISTIC PDES <b>2000</b> ,		1
66	Teaching parallel processing. <i>ACM SIGCUE Outlook</i> , <b>1996</b> , 24, 159-161		1

65	A Digital Control Laboratory with Microprocessors. <i>International Journal of Electrical Engineering and Education</i> , <b>1983</b> , 20, 297-302	0.6	1
64	Integer linear programming for microprograms register allocation. <i>Information Processing Letters</i> , <b>1984</b> , 19, 81-85	0.8	1
63	Time-optimal control algorithm for microprocessor with asymmetrical bounds. <i>IEE Proceedings D: Control Theory and Applications</i> , <b>1984</b> , 131, 238		1
62	Automatic Tuning in Computational Grids <b>2007</b> , 381-389		1
61	Simulation of Forest Fire Propagation on Parallel & Distributed PVM Platforms. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 386-392	0.9	1
60	Speeding Up Target Address Generation Using a Self-indexed FTB. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 517-521	0.9	1
59	Adjusting the Lengths of Time Slices when Scheduling PVM Jobs with High Memory Requirements. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 156-164	0.9	1
58	Web Remote Services Oriented Architecture for Cluster Management. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 368-375	0.9	1
57	Optimizing a Decoupled Front-End Architecture: The Indexed Fetch Target Buffer (iFTB). <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 566-575	0.9	1
56	Multiprogramming Level of PVM Jobs in a Non-dedicated Linux NOW. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 577-585	0.9	1
55	Performance Model for Parallel Mathematical Libraries Based on Historical Knowledgebase. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 110-119	0.9	1
54	How a Computational Method Can Help to Improve the Quality of River Flood Prediction by Simulation. <i>Progress in IS</i> , <b>2016</b> , 337-351	0.9	1
53	Adaptive L2 Cache for Chip Multiprocessors. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 28-37	0.9	1
52	Soft errors detection and automatic recovery based on replication combined with different levels of checkpointing. <i>Future Generation Computer Systems</i> , <b>2020</b> , 113, 240-254	7.5	1
51	Investigating Impacts of Telemedicine on Emergency Department Through Decreasing Non-Urgent Patients in Spain. <i>IEEE Access</i> , <b>2020</b> , 8, 164238-164245	3.5	1
50	Analyzing the data behavior of parallel application for extracting performance knowledge. <b>2019</b> ,		1
49	Analysis of parallel application checkpoint storage for system configuration. <i>Journal of Supercomputing</i> , <b>2021</b> , 77, 4582-4617	2.5	1
48	Simulation of Ecologic Systems Using MPI. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 449-456	0.9	1

47	Minimizing Paging Tradeoffs Applying Coscheduling Techniques in a Linux Cluster. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 593-607	0.9	1
46	Implementing and Analysing an Effective Explicit Coscheduling Algorithm on a NOW. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 75-88	0.9	0
45	Target Encoding for Efficient Indirect Jump Prediction. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 497-507	0.9	0
44	An Approach for Efficient Execution of SPMD Applications on Multicore Clusters <b>2017</b> , 431-450		
43	RADIC Based Fault Tolerance System with Dynamic Resource Controller. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 624-631	0.9	
42	Heap-Based Algorithms to Accelerate Fingerprint Matching on Parallel Platforms. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 61-72	0.3	
41	Benchmark Based on Application Signature to Analyze and Predict Their Behavior. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 28-40	0.3	
40	Defining Asymptotic Parallel Time Complexity of Data-dependent Algorithms. <i>New Generation Computing</i> , <b>2014</b> , 32, 123-144	0.9	
39	Improving the Network of Search Engine Services Through Application-Driven Routing. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 638-650	0.9	
38	Virtual Clinical Trials: A tool for the Study of Transmission of Nosocomial Infections. <i>Procedia Computer Science</i> , <b>2017</b> , 108, 109-118	1.6	
37	A methodology for transparent knowledge specification in a dynamic tuning environment. <i>Software - Practice and Experience</i> , <b>2012</b> , 42, 281-302	2.5	
36	A Decision Support System for Hospital Emergency Departments Built Using Agent-Based Techniques. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 247-253		
35	Teaching parallel processing. <i>SIGCSE Bulletin</i> , <b>1996</b> , 28, 159-161	0	
34	Exploiting Traffic Balancing and Multicast Efficiency in Distributed Video-on-Demand Architectures. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 859-869	0.9	
33	Modeling Clustered Task Graphs for Scheduling Large Parallel Programs in Distributed Systems. <i>Simulation</i> , <b>2004</b> , 80, 243-254	1.2	
32	Is evolution or revolution the way for improving the teaching methodology in computer science?. <i>SIGCSE Bulletin</i> , <b>2005</b> , 37, 2-2	0	
31	Efficient Mapping for Message-Passing Applications Using the TTIG Model: A Case Study in Image Processing. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 370-377	0.9	
30	Simulation of parallel systems: PSEE (Parallel System Evaluation Environment). <i>Future Generation Computer Systems</i> , <b>1994</b> , 10, 291-294	7.5	

- 29 Programming environment for a transputer based computer. *Future Generation Computer Systems*, **1994**, 10, 295-299 7.5
- 28 Scheduling of parallel programs including dynamic loops. *Future Generation Computer Systems*, **1994**, 10, 301-304 7.5
- 27 Vertical migration: an experimental study of the candidate-selection problem. *IEE Proceedings E: Computers and Digital Techniques*, **1987**, 134, 177
- 26 Coprocessor for real-time dynamic vertical migration. *Microprocessing and Microprogramming*, **1987**, 20, 197-202
- 25 A development system for self tuning machines. *Microprocessing and Microprogramming*, **1984**, 14, 145-148
- 24 A general purpose computer emulator. *Euromicro Newsletter*, **1978**, 4, 133-140
- 23 A General Approach to Predict the Performance Order of TSP Family Problems **2008**, 97-108
- 22 Monito: A Communication Monitoring Tool for a PVM-Linux Environment. *Lecture Notes in Computer Science*, **2000**, 233-241 0.9
- 21 PDES: A Case Study Using the Switch Time Warp. *Lecture Notes in Computer Science*, **2001**, 327-334 0.9
- 20 Parasite: Distributing Processing Using Java Applets. *Lecture Notes in Computer Science*, **2002**, 598-602 0.9
- 19 Accelerating Wildland Fire Prediction on Cluster Systems. *Lecture Notes in Computer Science*, **2004**, 220-227
- 18 Supporting Caching and Mirroring in Distributed Video-on-Demand Architectures. *Lecture Notes in Computer Science*, **2004**, 792-798 0.9
- 17 A Pipeline-Based Approach for Mapping Message-Passing Applications with an Input Data Stream. *Lecture Notes in Computer Science*, **2004**, 224-233 0.9
- 16 Graduate students learning strategies through research collaboration. *SIGCSE Bulletin*, **2004**, 36, 262-262
- 15 Providing VCR in a Distributed Client Collaborative Multicast Video Delivery Scheme. *Lecture Notes in Computer Science*, **2006**, 777-787 0.9
- 14 Heuristic algorithms for register allocation. *IEE Proceedings E: Computers and Digital Techniques*, **1992**, 139, 73
- 13 Synthetic Signature Program for Performance Scalability. *Lecture Notes in Computer Science*, **2016**, 345-355
- 12 Dynamic on Demand Virtual Clusters in Grid. *Lecture Notes in Computer Science*, **2009**, 13-22 0.9

11	A Fault-Tolerant Cache Service for Web Search Engines: RADIC Evaluation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 298-310	0.9
10	Fault-tolerant memory with content-recovery capability. <i>IEE Proceedings E: Computers and Digital Techniques</i> , <b>1981</b> , 128, 7	
9	User-oriented architecture. <i>IEE Proceedings E: Computers and Digital Techniques</i> , <b>1981</b> , 128, 149	
8	Technical note. Approach for register allocation in microprogram generation. <i>IEE Proceedings E: Computers and Digital Techniques</i> , <b>1984</b> , 131, 99	
7	Crowd Turbulence with ABM and Verlet Integration on GPU Cards. <i>Procedia Computer Science</i> , <b>2016</b> , 80, 2428-2432	1.6
6	Middleware to Manage Fault Tolerance Using Semi-Coordinated Checkpoints. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2021</b> , 32, 254-268	3.7
5	Agile Tuning Method in Successive Steps for a River Flow Simulator. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 639-646	0.9
4	Improving Analysis in SPMD Applications for Performance Prediction. <i>Transactions on Computational Science and Computational Intelligence</i> , <b>2021</b> , 387-404	0.9
3	A model of checkpoint behavior for applications that have I/O. <i>Journal of Supercomputing</i> , 1	2.5
2	Investigating the Components of Virtual Emergency Department.. <i>Studies in Health Technology and Informatics</i> , <b>2022</b> , 291, 118-130	0.5
1	KP01 Solved by an n-Dimensional Sampling and Clustering Heuristic. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 229-236	0.9