

Frederic Loulergue

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2060691/publications.pdf>

Version: 2024-02-01

80
papers

434
citations

933447

10
h-index

888059

17
g-index

82
all docs

82
docs citations

82
times ranked

114
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk Synchronous Parallel ML: Modular Implementation and Performance Prediction. Lecture Notes in Computer Science, 2005, , 1046-1054.	1.3	53
2	A calculus of functional BSP programs. Science of Computer Programming, 2000, 37, 253-277.	1.9	31
3	A static analysis for Bulk Synchronous Parallel ML to avoid parallel nesting. Future Generation Computer Systems, 2005, 21, 665-671.	7.5	21
4	Handling Data-skew Effects in Join Operations Using MapReduce. Procedia Computer Science, 2014, 29, 145-158.	2.0	21
5	Bulk synchronous parallel ML with exceptions. Future Generation Computer Systems, 2010, 26, 486-490.	7.5	18
6	Calculating Parallel Programs in Coq Using List Homomorphisms. International Journal of Parallel Programming, 2017, 45, 300-319.	1.5	16
7	Systematic Development of Correct Bulk Synchronous Parallel Programs. , 2010, , .		14
8	Ghosts for Lists: A Critical Module of Contiki Verified in Frama-C. Lecture Notes in Computer Science, 2018, , 37-53.	1.3	14
9	A Verified Bulk Synchronous Parallel ML Heat Diffusion Simulation. Procedia Computer Science, 2011, 4, 36-45.	2.0	13
10	Towards Full Proof Automation in Frama-C Using Auto-active Verification. Lecture Notes in Computer Science, 2019, , 88-105.	1.3	11
11	OSL: Optimized Bulk Synchronous Parallel Skeletons on Distributed Arrays. Lecture Notes in Computer Science, 2009, , 436-451.	1.3	11
12	OSL: An Algorithmic Skeleton Library with Exceptions. Procedia Computer Science, 2013, 18, 260-269.	2.0	10
13	Program Calculation in Coq. Lecture Notes in Computer Science, 2011, , 163-179.	1.3	10
14	Parallel Superposition for Bulk Synchronous Parallel ML. Lecture Notes in Computer Science, 2003, , 223-232.	1.3	9
15	Parallel programming and performance predictability with Orleans Skeleton Library. , 2011, , .		8
16	A Polymorphic Type System for Bulk Synchronous Parallel ML. Lecture Notes in Computer Science, 2003, , 215-229.	1.3	8
17	Parallel Juxtaposition for Bulk Synchronous Parallel ML. Lecture Notes in Computer Science, 2003, , 781-788.	1.3	8
18	Formal Semantics of DRMA-Style Programming in BSPLib. , 2007, , 1122-1129.		8

#	ARTICLE	IF	CITATIONS
19	Formal derivation and extraction of a parallel program for the all nearest smaller values problem. , 2014, , .		7
20	Replicated Synchronization for Imperative BSP Programs. Procedia Computer Science, 2017, 108, 535-544.	2.0	7
21	A Java Framework for High Level Parallel Programming Using Powerlists. , 2017, , .		7
22	A Lesson on Verification of IoT Software with Frama-C. , 2018, , .		7
23	A Verified Generate-Test-Aggregate Coq Library for Parallel Programs Extraction. Lecture Notes in Computer Science, 2014, , 258-274.	1.3	7
24	A FUNCTIONAL LANGUAGE FOR DEPARTMENTAL METACOMPUTING. Parallel Processing Letters, 2005, 15, 289-304.	0.6	6
25	Implementing Algorithmic Skeletons with Bulk Synchronous Parallel ML. , 2017, , .		6
26	A Formal Programming Model of Orleans Skeleton Library. Lecture Notes in Computer Science, 2011, , 40-52.	1.3	6
27	Functional parallel programming with explicit processes: Beyond SPMD. Lecture Notes in Computer Science, 1997, , 530-537.	1.3	5
28	Functional Parallel Programming with Revised Bulk Synchronous Parallel ML. , 2010, , .		5
29	A BSPlib-style API for Bulk Synchronous Parallel ML. Scalable Computing, 2017, 18, .	1.0	5
30	Managing arbitrary distributions of arrays in Orleans Skeleton Library. , 2013, , .		4
31	Nested Atomic Sections with Thread Escape: An Operational Semantics. , 2013, , .		4
32	Development effort and performance trade-off in high-level parallel programming. , 2014, , .		4
33	Conc2Seq: A Frama-C Plugin for Verification of Parallel Compositions of C Programs. , 2016, , .		4
34	A Verified Accumulate Algorithmic Skeleton. , 2017, , .		4
35	A Cloud Brokerage Solution: Formal Methods Meet Security in Cloud Federations. , 2018, , .		4
36	PySke: Algorithmic Skeletons for Python. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
37	A Parallel Virtual Machine for Bulk Synchronous Parallel ML. Lecture Notes in Computer Science, 2003, , 155-164.	1.3	4
38	Programming with BSP Homomorphisms. Lecture Notes in Computer Science, 2013, , 446-457.	1.3	4
39	Logic against ghosts. , 2019, , .		4
40	Soundness of a Dataflow Analysis for Memory Monitoring. ACM SIGAda Ada Letters, 2019, 38, 97-108.	0.1	4
41	Concrete data structures and functional parallel programming. Theoretical Computer Science, 2001, 258, 233-267.	0.9	3
42	Towards verified cloud computing environments. , 2012, , .		3
43	Verified Runtime Assertion Checking for Memory Properties. Lecture Notes in Computer Science, 2020, , 100-121.	1.3	3
44	BS ¹ ppp: Functional BSP Programs on Enumerated Vectors. Lecture Notes in Computer Science, 2000, , 355-363.	1.3	3
45	Type system for a safe execution of parallel programs in BSML. , 2011, , .		2
46	Powerlists in Coq: Programming and Reasoning. , 2013, , .		2
47	Implementing Powerlists with Bulk Synchronous Parallel ML. , 2014, , .		2
48	Tutorial: Secure Your Things: Secure Development of IoT Software with Frama-C. , 2018, , .		2
49	Towards Automatically Optimizing PySke Programs. , 2019, , .		2
50	Transforming powerlist-based divide-and-conquer programs for an improved execution model. Journal of Supercomputing, 2020, 76, 5016-5037.	3.6	2
51	A Verified Library of Algorithmic Skeletons on Evenly Distributed Arrays. Lecture Notes in Computer Science, 2012, , 218-232.	1.3	2
52	PREFACE: Special Issue on High-Level Parallel Programming and Applications. Parallel Processing Letters, 2003, 13, 313-316.	0.6	1
53	Nested atomic sections with thread escape. , 2014, , .		1
54	Automated Generation of BSP Automata. Parallel Processing Letters, 2017, 27, 1740002.	0.6	1

#	ARTICLE	IF	CITATIONS
55	Reflections on the Design of Parallel Programming Frameworks. Communications in Computer and Information Science, 2021, , 154-181.	0.5	1
56	Automatic Optimization of Python Skeletal Parallel Programs. Lecture Notes in Computer Science, 2020, , 183-197.	1.3	1
57	Bulk Synchronous Parallel ML with Exceptions. , 2007, , 33-42.		1
58	Experiments in Parallel Matrix Multiplication on Multi-core Systems. Lecture Notes in Computer Science, 2012, , 362-376.	1.3	1
59	Parallel programming with Coq. , 2019, , .		1
60	Experience Report: Teaching Code Analysis and Verification Using Frama-C. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 349, 69-75.	0.8	1
61	Introduction to the special issue on semantics and costs models for high-level parallel programming. Computer Languages, Systems and Structures, 2007, 33, 79-81.	1.4	0
62	An efficient skew-insensitive algorithm for join processing on grid architectures. , 2011, , .		0
63	A formal semantics of nested atomic sections with thread escape. Computer Languages, Systems and Structures, 2015, 42, 2-21.	1.4	0
64	Nested atomic sections with thread escape. , 2015, , .		0
65	Imperative BSPLib-style Communications in BSMML. Procedia Computer Science, 2017, 108, 2368-2372.	2.0	0
66	Towards a Verified Parallel Implementation of Frequent Itemset Mining. , 2017, , .		0
67	Formalization of a Big Graph API in Coq. , 2017, , .		0
68	MMFilter : A CHR-Based Solver for Generation of Executions under Weak Memory Models. Computer Languages, Systems and Structures, 2018, 53, 121-142.	1.4	0
69	Towards the Generation of Correct Java Programs (Research Poster). , 2018, , .		0
70	Parallel Programming with OCaml: A Tutorial. , 2018, , .		0
71	Strong Security Guarantees: From Alloy to Coq (Research Poster). , 2018, , .		0
72	Verified Programs for Frequent Itemset Mining. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Interactive Bulk Synchronous Parallel Functional Programming in a Browser. , 2018, , .		0
74	New List Skeletons for the Python Skeleton Library. , 2019, , .		0
75	Verification of a Heat Diffusion Simulation Written with Orleans Skeleton Library. Lecture Notes in Computer Science, 2012, , 91-100.	1.3	0
76	Introduction to the Special Issue on Practical Aspects of High-Level Parallel Programming. Scalable Computing, 2017, 18, .	1.0	0
77	From Concurrent Programs to Simulating Sequential Programs: Correctness of a Transformation. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 253, 109-123.	0.8	0
78	A First Step in the Translation of Alloy to Coq. Lecture Notes in Computer Science, 2019, , 455-469.	1.3	0
79	Divide-and-Conquer Parallel Programming with Minimally Synchronous Parallel ML. , 2008, , 1078-1085.		0
80	Semantics of an Exception Mechanism for Bulk Synchronous Parallel ML. , 2007, , .		0