Pedro Lopez-Garcia

List of Publications by Year
in descending order

37 papers	**497** citations	933447 **10** h-index	752698 **20** g-index
44 all docs	**44** docs citations	**44** times ranked	**183** citing authors

#	Article	IF	Citations
1	Integrated program debugging, verification, and optimization using abstract interpretation (and the) Tj ETQq1 1 0.784314 rgBT /Over	1.9	118
2	An overview of Ciao and its design philosophy. Theory and Practice of Logic Programming, 2012, 12, 219-252.	1.5	85
3	User-Definable Resource Bounds Analysis for Logic Programs. , 2007, , 348-363.		30
4	Energy Consumption Analysis of Programs Based on XMOS ISA-Level Models. Lecture Notes in Computer Science, 2014, , 72-90.	1.3	27
5	Integrating Software Testing and Run-Time Checking in an Assertion Verification Framework. Lecture Notes in Computer Science, 2009, , 281-295.	1.3	27
6	Resource Usage Analysis of Logic Programs via Abstract Interpretation Using Sized Types. Theory and Practice of Logic Programming, 2014, 14, 739-754.	1.5	21
7	Program Development Using Abstract Interpretation (And the Ciao System Preprocessor). Lecture Notes in Computer Science, 2003, , 127-152.	1.3	18
8	Interval-based resource usage verification by translation into Horn clauses and an application to energy consumption. Theory and Practice of Logic Programming, 2018, 18, 167-223.	1.5	16
9	Inferring Parametric Energy Consumption Functions at Different Software Levels: ISA vs. LLVM IR. Lecture Notes in Computer Science, 2016, , 81-100.	1.3	16
10	ENTRA: Whole-systems energy transparency. Microprocessors and Microsystems, 2016, 47, 278-286.	2.8	13
11	Stochastic vs. deterministic evolutionary algorithm-based allocation and scheduling for XMOS chips. Neurocomputing, 2015, 150, 82-89.	5.9	10
12	Multivariant Non-failure Analysis via Standard Abstract Interpretation. Lecture Notes in Computer Science, 2004, , 100-116.	1.3	10
13	Determinacy Analysis for Logic Programs Using Mode and Type Information. Lecture Notes in Computer Science, 2005, , 19-35.	1.3	9
14	Abstraction carrying code and resource-awareness. , 2005, , .		9
15	Automatic Inference of Determinacy and Mutual Exclusion for Logic Programs Using Mode and Type Analyses. New Generation Computing, 2010, 28, 177-206.	3.3	9
16	Cost Analysis of Smart Contracts Via Parametric Resource Analysis. Lecture Notes in Computer Science, 2020, , 7-31.	1.3	9
17	A general framework for static profiling of parametric resource usage. Theory and Practice of Logic Programming, 2016, 16, 849-865.	1.5	8
18	Combining Static Analysis and Profiling for Estimating Execution Times. Lecture Notes in Computer Science, 2006, , 140-154.	1.3	7

#	Article	IF	Citations
19	Static Performance Guarantees for Programs with Runtime Checks. , 2018, , .		6
20	Computing Abstract Distances in Logic Programs. Lecture Notes in Computer Science, 2020, , 57-72.	1.3	5
21	A Transformational Approach to Parametric Accumulated-Cost Static Profiling. Lecture Notes in Computer Science, 2016, , 163-180.	1.3	5
22	Interval-Based Resource Usage Verification: Formalization and Prototype. Lecture Notes in Computer Science, 2012, , 54-71.	1.3	5
23	Abstract Verification and Debugging of Constraint Logic Programs. Lecture Notes in Computer Science, 2003, , 1-14.	1.3	4
24	An Integrated Approach to Assertion-Based Random Testing in Prolog. Lecture Notes in Computer Science, 2020, , 159-176.	1.3	4
25	Using Combined Static Analysis and Profiling for Logic Program Execution Time Estimation. Lecture Notes in Computer Science, 2006, , 431-432.	1.3	3
26	A General Framework for Static Cost Analysis of Parallel Logic Programs. Lecture Notes in Computer Science, 2020, , 19-35.	1.3	3
27	CLP projection for constraint handling rules. , 2011, , .		2
28	Energy Efficient Allocation and Scheduling for DVFS-enabled Multicore Environments using a Multiobjective Evolutionary Algorithm. , 2015, , .		2
29	An evolutionary scheduling approach for trading-off accuracy vs. verifiable energy in multicore processors. Logic Journal of the IGPL, 2017, 25, 1006-1019.	1.5	2
30	A Practical Approach for Energy Efficient Scheduling in Multicore Environments by Combining Evolutionary and YDS Algorithms with Faster Energy Estimation. IFIP Advances in Information and Communication Technology, 2015, , 478-493.	0.7	2
31	Inferring Energy Bounds via Static Program Analysis and Evolutionary Modeling of Basic Blocks. Lecture Notes in Computer Science, 2018, , 54-72.	1.3	2
32	VeriFly: <i>On-the-fly Assertion Checking via Incrementality</i>. Theory and Practice of Logic Programming, 2021, 21, 768-784.	1.5	2
33	Testing Your (Static Analysis) Truths. Lecture Notes in Computer Science, 2021, , 271-292.	1.3	1
34	Regular Path Clauses and Their Application in Solving Loops. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 344, 22-35.	0.8	0
35	Genetic Algorithm-Based Allocation and Scheduling for Voltage and Frequency Scalable XMOS Chips. Lecture Notes in Computer Science, 2013, , 401-410.	1.3	0
36	Energy Consumption Analysis and Verification by Transformation into Horn Clauses and Abstract Interpretation. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 253, 4-6.	0.8	0

#	ARTICLE	IF	CITATIONS
37	A general framework for static profiling of parametric resource usage â€" CORRIGENDUM. Theory and Practice of Logic Programming, 2021, 21, 291-291.	1.5	0