Tiark Rompf

List of Publications by Year
in descending order

46 papers	1,076 citations	1163117 8 h-index	752698 20 g-index
46 all docs	46 docs citations	46 times ranked	430 citing authors

#	Article	IF	Citations
1	Reachability types: tracking aliasing and separation in higher-order functional programs. , 2021, 5, 1-32.		5
2	On-stack replacement for program generators and source-to-source compilers. , 2021, , .		2
3	Architecting a Query Compiler for Spatial Workloads. , 2020, , .		5
4	Towards compiling graph queries in relational engines. , 2019, , .		4
5	A SQL to C compiler in 500 lines of code. Journal of Functional Programming, 2019, 29, .	0.8	3
6	Flare & lantern. Proceedings of the VLDB Endowment, 2019, 12, 1910-1913.	3.8	3
7	SIMD intrinsics on managed language runtimes. , 2018, , .		11
8	Collapsing towers of interpreters. , 2018, 2, 1-33.		12
9	SIMD intrinsics on managed language runtimes. , 2018, , .		1
10	How to Architect a Query Compiler, Revisited. , 2018, , .		36
11	LMS-Verify: abstraction without regret for verified systems programming. , 2017, , .		8
12	LMS-Verify: abstraction without regret for verified systems programming. ACM SIGPLAN Notices, 2017, 52, 859-873.	0.2	1
13	Flexible data views: design and implementation. , 2017, , .		0
14	Functional parallels of sequential imperatives (short paper). , 2017, , .		2
15	Staging for generic programming in space and time. , 2017, , .		9
16	Staging for generic programming in space and time. ACM SIGPLAN Notices, 2017, 52, 15-28.	0.2	2
17	RandIR: differential testing for embedded compilers. , 2016, , .		13
18	On supporting compilation in spatial query engines. , 2016, , .		5

#	Article	IF	Citations
19	The Essence of Multi-stage Evaluation in LMS. Lecture Notes in Computer Science, 2016, , 318-335.	1.3	9
20	Reflections on LMS: exploring front-end alternatives. , 2016, , .		9
21	Gentrification gone too far? affordable 2nd-class values for fun and (co-)effect. , 2016, , .		9
22	Gentrification gone too far? affordable 2nd-class values for fun and (co-)effect. ACM SIGPLAN Notices, 2016, 51, 234-251.	0.2	8
23	RRB vector: a practical general purpose immutable sequence. , 2015, , .		12
24	Functional pearl: a SQL to C compiler in 500 lines of code. , 2015, , .		17
25	RRB vector: a practical general purpose immutable sequence. ACM SIGPLAN Notices, 2015, 50, 342-354.	0.2	2
26	Functional pearl: a SQL to C compiler in 500 lines of code. ACM SIGPLAN Notices, 2015, 50, 2-9.	0.2	8
27	Unifying functional and object-oriented programming with Scala. Communications of the ACM, 2014, 57, 76-86.	4.5	31
28	Abstracting Vector Architectures in Library Generators. , 2014, , .		5
29	Delite. Transactions on Embedded Computing Systems, 2014, 13, 1-25.	2.9	134
30	Forge. ACM SIGPLAN Notices, 2014, 49, 145-154.	0.2	6
31	Surgical precision JIT compilers. , 2014, , .		34
32	Building efficient query engines in a high-level language. Proceedings of the VLDB Endowment, 2014, 7, 853-864.	3.8	74
33	Spiral in scala. ACM SIGPLAN Notices, 2014, 49, 125-134.	0.2	7
34	Surgical precision JIT compilers. ACM SIGPLAN Notices, 2014, 49, 41-52.	0.2	28
35	Staged parser combinators for efficient data processing. ACM SIGPLAN Notices, 2014, 49, 637-653.	0.2	3
36	Making domain-specific hardware synthesis tools cost-efficient. , 2013, , .		13

#	Article	IF	Citations
37	Spiral in scala. , 2013, , .		34
38	Optimizing data structures in high-level programs. , 2013, , .		73
39	What are the Odds?. , 2013, , .		2
40	Forge. , 2013, , .		27
41	Optimizing data structures in high-level programs. ACM SIGPLAN Notices, 2013, 48, 497-510.	0.2	8
42	Scala-Virtualized: linguistic reuse for deep embeddings. Higher-Order and Symbolic Computation, 2012, 25, 165-207.	0.3	38
43	Lightweight modular staging. Communications of the ACM, 2012, 55, 121-130.	4.5	103
44	Implementing Domain-Specific Languages for Heterogeneous Parallel Computing. IEEE Micro, 2011, 31, 42-53.	1.8	65
45	Lightweight modular staging. , 2010, , .		188
46	Language virtualization for heterogeneous parallel computing. ACM SIGPLAN Notices, 2010, 45, 835-847.	0.2	7