Éric Tanter

List of Publications by Year
in descending order

104 papers	1,647 citations	471509 17 h-index	526287 27 g-index
107 all docs	107 docs citations	107 times ranked	524 citing authors

#	ARTICLE	IF	CITATIONS
1	Abstracting gradual typing. , 2016, , .		74
2	Scalable omniscient debugging. , 2007, , .		64
3	Foundations of Typestate-Oriented Programming. ACM Transactions on Programming Languages and Systems, 2014, 36, 1-44.	2.1	58
4	An empirical study on the impact of static typing on software maintainability. Empirical Software Engineering, 2014, 19, 1335-1382.	3.9	57
5	Partial behavioral reflection. , 2003, , .		56
6	Back to the Future: Omniscient Debugging. IEEE Software, 2009, 26, 78-85.	1.8	56
7	Context-Aware Aspects. Lecture Notes in Computer Science, 2006, , 227-242.	1.3	50
8	Do static type systems improve the maintainability of software systems? An empirical study. , 2012, , .		49
9	A Versatile Kernel for Multi-language AOP. Lecture Notes in Computer Science, 2005, , 173-188.	1.3	45
10	First-class state change in plaid. , 2011, , .		43
11	An empirical study of the influence of static type systems on the usability of undocumented software. , 2012, , .		42
12	Expressive scoping of dynamically-deployed aspects. , 2008, , .		38
13	AspectScript. , 2010, , .		38
14	Execution levels for aspect-oriented programming. , 2010, , .		36
15	A theory of gradual effect systems. , 2014, , .		35
16	Scalable omniscient debugging. ACM SIGPLAN Notices, 2007, 42, 535-552.	0.2	31
17	How (and why) developers use the dynamic features of programming languages: the case of smalltalk. Empirical Software Engineering, 2013, 18, 1156-1194.	3.9	30
18	Join point interfaces for safe and flexible decoupling of aspects. ACM Transactions on Software Engineering and Methodology, 2014, 23, 1-41.	6.0	29

#	ARTICLE	IF	CITATIONS
19	Gradual refinement types. , 2017, , .		29
20	Type-Driven Gradual Security with References. ACM Transactions on Programming Languages and Systems, 2018, 40, 1-55.	2.1	29
21	Partial behavioral reflection. ACM SIGPLAN Notices, 2003, 38, 27-46.	0.2	28
22	Gradual typing for Smalltalk. Science of Computer Programming, 2014, 96, 52-69.	1.9	27
23	Runtime bytecode transformation for Smalltalk. Computer Languages, Systems and Structures, 2006, 32, 125-139.	1.4	26
24	Aspects of Composition in the Reflex AOP Kernel. Lecture Notes in Computer Science, 2006, , 98-113.	1.3	26
25	Gradual Typestate. Lecture Notes in Computer Science, 2011, , 459-483.	1.3	26
26	Polymorphic bytecode instrumentation. , 2011, , .		24
27	Altering Java Semantics via Bytecode Manipulation. Lecture Notes in Computer Science, 2002, , 283-298.	1.3	23
28	Unanticipated partial behavioral reflection: Adapting applications at runtime. Computer Languages, Systems and Structures, 2008, 34, 46-65.	1.4	21
29	A Versatile Kernel for Distributed AOP. Lecture Notes in Computer Science, 2006, , 316-331.	1.3	21
30	An empirical study of the influence of static type systems on the usability of undocumented software. ACM SIGPLAN Notices, 2012, 47, 683-702.	0.2	19
31	Cast insertion strategies for gradually-typed objects. , 2013, , .		19
32	Parallel actor monitors: Disentangling task-level parallelism from data partitioning in the actor model. Science of Computer Programming, 2014, 80, 52-64.	1.9	19
33	Expressive scoping of distributed aspects. , 2009, , .		18
34	Join point interfaces for modular reasoning in aspect-oriented programs. , 2011, , .		18
35	Aspectizing Java Access Control. IEEE Transactions on Software Engineering, 2012, 38, 101-117.	5.6	16
36	Execution levels for aspect-oriented programming: Design, semantics, implementations and applications. Science of Computer Programming, 2014, 80, 311-342.	1.9	15

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37	A Taxonomy of Domain-Specific Aspect Languages. ACM Computing Surveys, 2015, 47, 1-44.	23.0	14
38	Foundations of dependent interoperability. Journal of Functional Programming, 2018, 28, .	0.8	14
39	Approximate normalization for gradual dependent types. , 2019, 3, 1-30.		14
40	Gradual parametricity, revisited. , 2019, 3, 1-30.		14
41	Reflex â€" Towards an Open Reflective Extension of Java. Lecture Notes in Computer Science, 2001, , 25-43.	1.3	14
42	Gradual certified programming in coq. , 2015, , .		14
43	Extending omniscient debugging to support aspect-oriented programming. , 2008, , .		13
44	Beyond static and dynamic scope. ACM SIGPLAN Notices, 2009, 44, 3-14.	0.2	13
45	Confined gradual typing. , 2014, , .		13
46	Gradual type-and-effect systems. Journal of Functional Programming, 2016, 26, .	0.8	13
47	Gradual Program Verification. Lecture Notes in Computer Science, 2018, , 25-46.	1.3	12
48	Composition of dynamic analysis aspects. , 2010, , .		11
49	Computational contracts. Science of Computer Programming, 2015, 98, 360-375.	1.9	11
50	Abstracting gradual references. Science of Computer Programming, 2020, 197, 102496.	1.9	11
51	How should context-escaping closures proceed?. , 2009, , .		10
52	First-class state change in plaid. ACM SIGPLAN Notices, 2011, 46, 713-732.	0.2	10
53	Abstracting gradual typing. ACM SIGPLAN Notices, 2016, 51, 429-442.	0.2	10
54	An expressive stateful aspect language. Science of Computer Programming, 2015, 102, 108-141.	1.9	9

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55	Flexible metaprogramming and AOP in Java. Science of Computer Programming, 2008, 72, 22-30.	1.9	8
56	Secure and modular access control with aspects. , 2013, , .		8
57	Summarized Trace Indexing and Querying for Scalable Back-in-Time Debugging. Lecture Notes in Computer Science, 2011, , 558-582.	1.3	8
58	Customizable gradual polymorphic effects for Scala. , 2015, , .		8
59	Sequential Object Monitors. Lecture Notes in Computer Science, 2004, , 317-341.	1.3	8
60	Gradualizing the Calculus of Inductive Constructions. ACM Transactions on Programming Languages and Systems, 2022, 44, 1-82.	2.1	8
61	Access Control in JavaScript. IEEE Software, 2011, 28, 76-84.	1.8	7
62	Modular and flexible causality control on the Web. Science of Computer Programming, 2013, 78, 1538-1558.	1.9	7
63	A typed monadic embedding of aspects. , 2013, , .		7
64	Gradual verification of recursive heap data structures. , 2020, 4, 1-28.		7
65	KALA: Kernel aspect language for advanced transactions. Science of Computer Programming, 2008, 71, 165-180.	1.9	6
66	Gradual liquid type inference. , 2018, 2, 1-25.		6
67	The Marriage of Univalence and Parametricity. Journal of the ACM, 2021, 68, 1-44.	2.2	6
68	ReLAx. , 2007, , .		5
69	Programming with Ghosts. IEEE Software, 2013, 30, 74-80.	1.8	5
70	A reasonably exceptional type theory. , 2019, 3, 1-29.		5
71	On dynamically-scoped crosscutting mechanisms. ACM SIGPLAN Notices, 2007, 42, 27-33.	0.2	5
72	A theory of gradual effect systems. ACM SIGPLAN Notices, 2014, 49, 283-295.	0.2	5

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73	Parallel object monitors. Concurrency Computation Practice and Experience, 2008, 20, 1387-1417.	2.2	4
74	Scoping strategies for distributed aspects. Science of Computer Programming, 2010, 75, 1235-1261.	1.9	4
75	Confined gradual typing. ACM SIGPLAN Notices, 2014, 49, 251-270.	0.2	4
76	Object-oriented software extensions in practice. Empirical Software Engineering, 2015, 20, 745-782.	3.9	4
77	Partial type equivalences for verified dependent interoperability. , 2016, , .		4
78	Unanticipated Partial Behavioral Reflection. Lecture Notes in Computer Science, 2007, , 47-65.	1.3	4
79	Gradual refinement types. ACM SIGPLAN Notices, 2017, 52, 775-788.	0.2	4
80	Declarative, formal, and extensible syntax definition for aspectJ. ACM SIGPLAN Notices, 2006, 41, 209-228.	0.2	3
81	On the use of type predicates in object-oriented software. , 2014, , .		3
82	Polymorphic bytecode instrumentation. Software - Practice and Experience, 2016, 46, 1351-1380.	3.6	3
83	Effect capabilities for Haskell: Taming effect interference in monadic programming. Science of Computer Programming, 2016, 119, 3-30.	1.9	3
84	Summary of the third workshop on Domain-Specific Aspect Languages. , 2008, , .		3
85	Partial type equivalences for verified dependent interoperability. ACM SIGPLAN Notices, 2016, 51, 298-310.	0.2	3
86	Modular composition and state update in Plaid. , 2010, , .		2
87	Ambient contracts: verifying and enforcing ambient object compositions Ã la carte. Personal and Ubiquitous Computing, 2011, 15, 341-351.	2.8	2
88	Compositional reasoning about aspect interference. , 2014, , .		2
89	ECOCAM, UN SISTEMA COMPUTACIONAL ADAPTABLE AL CONTEXTO PARA PROMOVER ESTRATEGIAS DE CÃ‚LCULO MENTAL: CARACTERÃ‚STICAS DE SU DISEÃ‘O Y RESULTADOS PRELIMINARES. Revista Latinoamericana De Investigacion En Matematica Educativa, 2023, 17, 33-58.	0.1	2
90	Gradually structured data. , 2021, 5, 1-29.		2

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91	Gradual certified programming in coq. ACM SIGPLAN Notices, 2016, 51, 26-40.	0.2	2
92	Plausible sealing for gradual parametricity. , 2022, 6, 1-28.		2
93	Infrastructure for domain-specific aspect languages: the ReLAx case study. IET Software, 2009, 3, 238.	2.1	1
94	Cast insertion strategies for gradually-typed objects. ACM SIGPLAN Notices, 2014, 49, 27-36.	0.2	1
95	Programming Paradigms and Mind Metaphors: Convergence and Cross-fertilization in the Study of Cognition. Biological Research, 2007, 40, .	3.4	1
96	Effective Aspects: A Typed Monadic Embedding of Pointcuts and Advice. Lecture Notes in Computer Science, 2014, , 145-192.	1.3	1
97	Programming paradigms and mind metaphors: convergence and cross-fertilization in the study of cognition. Biological Research, 2007, 40, 503-15.	3.4	1
98	Mirrorâ€based reflection in AmbientTalk. Software - Practice and Experience, 2009, 39, 661-699.	3.6	0
99	Composition of dynamic analysis aspects. ACM SIGPLAN Notices, 2011, 46, 113-122.	0.2	0
100	Taming aspects. , 2013, , .		0
101	Chemical foundations of distributed aspects. Distributed Computing, 2019, 32, 193-216.	0.8	0
102	Review of â€œThe Little Proverâ€•by Daniel P. Friedman and Carl Eastlund, MIT Press, 2015. Journal of Functional Programming, 2020, 30, .	0.8	0
103	On the use of type predicates in object-oriented software. ACM SIGPLAN Notices, 2015, 50, 135-146.	0.2	0
104	Customizable gradual polymorphic effects for Scala. ACM SIGPLAN Notices, 2015, 50, 935-953.	0.2	0