

# Achim D Brucker

## List of Publications by Year in descending order

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70  
papers

896  
citations

567281

15  
h-index

677142

22  
g-index

79  
all docs

79  
docs citations

79  
times ranked

616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformance Testing of Formal Semantics Using Grammar-Based Fuzzing. Lecture Notes in Computer Science, 2022, , 106-125.	1.3	2
2	Performing Security Proofs of Stateful Protocols. , 2021, , .		1
3	A Denotational Semantics of Solidity in Isabelle/HOL. Lecture Notes in Computer Science, 2021, , 403-422.	1.3	5
4	A Formally Verified Model of Web Components. Lecture Notes in Computer Science, 2020, , 51-71.	1.3	0
5	A Screening Test for Disclosed Vulnerabilities in FOSS Components. IEEE Transactions on Software Engineering, 2019, 45, 945-966.	5.6	22
6	Isabelle/DOF: Design and Implementation. Lecture Notes in Computer Science, 2019, , 275-292.	1.3	7
7	A Formal Semantics of the Core DOM in Isabelle/HOL. , 2018, , .		3
8	Security policy monitoring of BPMN-based service compositions. Journal of Software: Evolution and Process, 2018, 30, e1944.	1.6	16
9	Using the Isabelle Ontology Framework. Lecture Notes in Computer Science, 2018, , 23-38.	1.3	11
10	Stateful Protocol Composition. Lecture Notes in Computer Science, 2018, , 427-446.	1.3	6
11	Workshop in OCL and Textual Modelling. Lecture Notes in Computer Science, 2018, , 297-301.	1.3	0
12	Formalising Extended Finite State Machine Transition Merging. Lecture Notes in Computer Science, 2018, , 373-387.	1.3	4
13	Formalizing (Web) Standards. Lecture Notes in Computer Science, 2018, , 159-166.	1.3	1
14	Modelling, validating, and ranking of secure service compositions. Software - Practice and Experience, 2017, 47, 1923-1943.	3.6	8
15	Time for Addressing Software Security Issues: Prediction Models and Impacting Factors. Data Science and Engineering, 2017, 2, 107-124.	6.4	18
16	On the Security Cost of Using a Free and Open Source Component in a Proprietary Product. Lecture Notes in Computer Science, 2016, , 190-206.	1.3	8
17	On the Static Analysis of Hybrid Mobile Apps. Lecture Notes in Computer Science, 2016, , 72-88.	1.3	20
18	Monadic Sequence Testing and Explicit Test-Refinements. Lecture Notes in Computer Science, 2016, , 17-36.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Security Testing. <i>Advances in Computers</i> , 2016, 101, 1-51.	1.6	92
20	Testing the IPC Protocol for a Real-Time Operating System. <i>Lecture Notes in Computer Science</i> , 2016, , 40-60.	1.3	2
21	Formal firewall conformance testing: an application of test and proof techniques. <i>Software Testing Verification and Reliability</i> , 2015, 25, 34-71.	2.0	12
22	Factors Impacting the Effort Required to Fix Security Vulnerabilities. <i>Lecture Notes in Computer Science</i> , 2015, , 102-119.	1.3	9
23	Editorial for the special issue of STVR on tests and proofs volume 2: tests and proofs for improving the generation time and quality of test data suites. <i>Software Testing Verification and Reliability</i> , 2014, 24, 591-592.	2.0	2
24	Editorial for the special issue of STVR on tests and proofs volume 1: tests and proofs in model-based testing. <i>Software Testing Verification and Reliability</i> , 2014, 24, 497-498.	2.0	0
25	Developing secure software. <i>Datenschutz Und Datensicherheit - DuD</i> , 2014, 38, 257-261.	0.4	8
26	Security Policy Monitoring of Composite Services. <i>Lecture Notes in Computer Science</i> , 2014, , 192-202.	1.3	1
27	The Aniketos Service Composition Framework. <i>Lecture Notes in Computer Science</i> , 2014, , 121-135.	1.3	2
28	Compliance Validation of Secure Service Compositions. <i>Lecture Notes in Computer Science</i> , 2014, , 136-149.	1.3	2
29	On theorem prover-based testing. <i>Formal Aspects of Computing</i> , 2013, 25, 683-721.	1.8	32
30	Business Process Compliance via Security Validation as a Service. , 2013, , .		11
31	A Framework for Secure Service Composition. , 2013, , .		11
32	Integrating Security Aspects into Business Process Models. <i>IT - Information Technology</i> , 2013, 55, 239-246.	0.9	0
33	Secure and Compliant Implementation of Business Process-Driven Systems. <i>Lecture Notes in Business Information Processing</i> , 2013, , 662-674.	1.0	15
34	Test Program Generation for a Microprocessor. <i>Lecture Notes in Computer Science</i> , 2013, , 76-95.	1.3	4
35	Integrating Security Aspects into Business Process Models. <i>IT - Information Technology</i> , 2013, 55, 239-246.	0.9	5
36	Security and safety of assets in business processes. , 2012, , .		6

#	ARTICLE	IF	CITATIONS
37	SecureBPMN. , 2012, , .		70
38	Featherweight OCL. , 2012, , .		1
39	Service Levels, Security, and Trust. , 2012, , 295-326.		2
40	Monitoring Security and Safety of Assets in Supply Chains. Communications in Computer and Information Science, 2012, , 9-20.	0.5	1
41	Tests and Proofs. Lecture Notes in Computer Science, 2012, , .	1.3	0
42	A Framework for Managing and Analyzing Changes of Security Policies. , 2011, , .		1
43	A Specification-Based Test Case Generation Method for UML/OCL. Lecture Notes in Computer Science, 2011, , 334-348.	1.3	18
44	An approach to modular and testable security models of real-world health-care applications. , 2011, , .		19
45	Efficient analysis of pattern-based constraint specifications. Software and Systems Modeling, 2010, 9, 225-255.	2.7	16
46	Access control caching strategies. , 2010, , .		3
47	Verified Firewall Policy Transformations for Test Case Generation. , 2010, , .		15
48	Information Flow in Disaster Management Systems. , 2010, , .		6
49	Attribute-Based Encryption with Break-Glass. Lecture Notes in Computer Science, 2010, , 237-244.	1.3	18
50	Integrating Automated and Interactive Protocol Verification. Lecture Notes in Computer Science, 2010, , 248-262.	1.3	9
51	Practical Issues with Formal Specifications. Lecture Notes in Computer Science, 2010, , 17-32.	1.3	4
52	Idea: Efficient Evaluation of Access Control Constraints. Lecture Notes in Computer Science, 2010, , 157-165.	1.3	2
53	ProActive Caching: Generating Caching Heuristics for Business Process Environments. , 2009, , .		3
54	Semantics, calculi, and analysis for object-oriented specifications. Acta Informatica, 2009, 46, 255-284.	0.5	24

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55	Extending access control models with break-glass. , 2009, , .		92
56	Delegation Assistance. , 2009, , .		2
57	hol-TestGen. Lecture Notes in Computer Science, 2009, , 417-420.	1.3	13
58	An Extensible Encoding of Object-oriented Data Models in hol. Journal of Automated Reasoning, 2008, 41, 219-249.	1.4	14
59	Verifying Test-Hypotheses. Electronic Notes in Theoretical Computer Science, 2008, 220, 15-27.	0.9	2
60	HOL-OCL: A Formal Proof Environment for uml/ocl. , 2008, , 97-100.		51
61	Model-Based Firewall Conformance Testing. Lecture Notes in Computer Science, 2008, , 103-118.	1.3	18
62	Extensible Universes for Object-Oriented Data Models. Lecture Notes in Computer Science, 2008, , 438-462.	1.3	3
63	Test-Sequence Generation with Hol-TestGen with an Application to Firewall Testing. Lecture Notes in Computer Science, 2007, , 149-168.	1.3	15
64	Interactive Testing with HOL-TestGen. Lecture Notes in Computer Science, 2006, , 87-102.	1.3	12
65	Symbolic Test Case Generation for Primitive Recursive Functions. Lecture Notes in Computer Science, 2005, , 16-32.	1.3	24
66	A verification approach to applied system security. International Journal on Software Tools for Technology Transfer, 2005, 7, 233-247.	1.9	5
67	A Case Study of a Formalized Security Architecture. Electronic Notes in Theoretical Computer Science, 2003, 80, 24-40.	0.9	3
68	Using Theory Morphisms for Implementing Formal Methods Tools. Lecture Notes in Computer Science, 2003, , 59-77.	1.3	1
69	A Proposal for a Formal OCL Semantics in Isabelle/HOL. Lecture Notes in Computer Science, 2002, , 99-114.	1.3	27
70	HOL-OCL: Experiences, Consequences and Design Choices. Lecture Notes in Computer Science, 2002, , 196-211.	1.3	11