Thai Son Hoang

List of Publications by Year
in descending order

50 papers	989 citations	687363 13 h-index	454955 30 g-index
54 all docs	54 docs citations	54 times ranked	342 citing authors

#	Article	IF	Citations
1	Rodin: an open toolset for modelling and reasoning in Event-B. International Journal on Software Tools for Technology Transfer, 2010, 12, 447-466.	1.9	518
2	Decomposition tool for event‑B. Software - Practice and Experience, 2011, 41, 199-208.	3.6	37
3	Event-B patterns and their tool support. Software and Systems Modeling, 2013, 12, 229-244.	2.7	36
4	Reasoning about Liveness Properties in Event-B. Lecture Notes in Computer Science, 2011, , 456-471.	1.3	31
5	The Hybrid ERTMS/ETCS Level 3 Case Study. Lecture Notes in Computer Science, 2018, , 251-261.	1.3	24
6	Qualitative Probabilistic Modelling in Event-B. Lecture Notes in Computer Science, 2007, , 293-312.	1.3	22
7	Developing topology discovery in Event-B. Science of Computer Programming, 2009, 74, 879-899.	1.9	19
8	Event-B Decomposition for Parallel Programs. Lecture Notes in Computer Science, 2010, , 319-333.	1.3	19
9	An STPA-based formal composition framework for trustworthy autonomous maritime systems. Safety Science, 2021, 136, 105139.	4.9	19
10	Code Generation for Event-B. Lecture Notes in Computer Science, 2014, , 323-338.	1.3	19
11	Probabilistic Invariants for Probabilistic Machines. Lecture Notes in Computer Science, 2003, , 240-259.	1.3	17
12	Domain-specific scenarios for refinement-based methods. Journal of Systems Architecture, 2021, 112, 101833.	4.3	15
13	Event-B Patterns and Their Tool Support. , 2009, , .		14
14	Validating the Requirements and Design of a Hemodialysis Machine Using iUML-B, BMotion Studio, and Co-Simulation. Lecture Notes in Computer Science, 2016, , 360-375.	1.3	13
15	Foundations for using linear temporal logic in Event-B refinement. Formal Aspects of Computing, 2016, 28, 909-935.	1.8	13
16	The Challenge of Probabilistic Event B—Extended Abstract—. Lecture Notes in Computer Science, 2005, , 162-171.	1.3	12
17	A Composition Mechanism for Refinement-Based Methods. , 2017, , .		12
18	Developing Topology Discovery in Event-B. Lecture Notes in Computer Science, 2009, , 1-19.	1.3	11

#	Article	IF	Citations
19	Development of Control Systems Guided by Models of their Environment. Electronic Notes in Theoretical Computer Science, 2011, 280, 57-68.	0.9	8
20	Large-scale system development using Abstract Data Types and refinement. Science of Computer Programming, 2016, 131, 59-75.	1.9	8
21	Formal Development of Policing Functions for Intelligent Systems. , 2017, , .		8
22	Refinement by Interface Instantiation. Lecture Notes in Computer Science, 2012, , 223-237.	1.3	7
23	Systems Design Guided by Progress Concerns. Lecture Notes in Computer Science, 2013, , 16-30.	1.3	6
24	Development via Refinement in Probabilistic B â€" Foundation and Case Study. Lecture Notes in Computer Science, 2005, , 355-373.	1.3	4
25	Abstractions of non-interference security: probabilistic versus possibilistic. Formal Aspects of Computing, 2014, 26, 169-194.	1.8	4
26	Reasoning about almost-certain convergence properties using Event-B. Science of Computer Programming, 2014, 81, 108-121.	1.9	4
27	The Unit-B method: refinement guided by progress concerns. Software and Systems Modeling, 2016, 15, 1091-1116.	2.7	4
28	Refinement of Statecharts with Run-to-Completion Semantics. Communications in Computer and Information Science, 2019, , 121-138.	0.5	4
29	Introduction to special section on the ABZ 2018 case study: Hybrid ERTMS/ETCS Level 3. International Journal on Software Tools for Technology Transfer, 2020, 22, 249-255.	1.9	4
30	Extensible Record Structures in Event-B. Lecture Notes in Computer Science, 2021, , 130-136.	1.3	4
31	Verifying System-Level Security of a Smart Ballot Box. Lecture Notes in Computer Science, 2021, , 34-49.	1.3	4
32	Towards Generating SPARK from Event-B Models. Lecture Notes in Computer Science, 2020, , 103-120.	1.3	4
33	Formal System Modelling Using Abstract Data Types in Event-B. Lecture Notes in Computer Science, 2014, , 222-237.	1.3	4
34	Tank monitoring: a pAMN case study. Formal Aspects of Computing, 2006, 18, 308-328.	1.8	3
35	Class-Diagrams for Abstract Data Types. Lecture Notes in Computer Science, 2017, , 100-117.	1.3	3
36	Refinement and Verification of Responsive Control Systems. Lecture Notes in Computer Science, 2020, , 272-277.	1.3	3

#	Article	IF	Citations
37	Formal Verification of Run-to-Completion Style Statecharts Using Event-B. Communications in Computer and Information Science, 2020, , 311-325.	0.5	3
38	Refinement of decomposed models by interface instantiation. Science of Computer Programming, 2014, 94, 144-163.	1.9	2
39	Validating and verifying the requirements and design of a haemodialysis machine using the Rodin toolset. Science of Computer Programming, 2018, 158, 122-147.	1.9	2
40	Tank Monitoring: A pAMN Case Study. Electronic Notes in Theoretical Computer Science, 2005, 137, 183-204.	0.9	1
41	Security invariants in discrete transition systems. Formal Aspects of Computing, 2013, 25, 59-87.	1.8	1
42	Reusing Formal Models via Lifting. , 2018, , .		1
43	Reasoning About Real-Time Systems in Event-B Models with Fairness Assumptions. , 2021, , .		1
44	Systematic Verification and Testing. , 2020, , 89-104.		1
45	Scalable reaction network modeling with automatic validation of consistency in Event-B. Scientific Reports, 2022, 12, 1287.	3.3	1
46	From TiMo to Event-B: Event-Driven Timed Mobility. , 2014, , .		0
47	Behaviour-Driven Formal Model Development of the ETCS Hybrid Level 3. , 2019, , .		0
48	Refinable Record Structures in Formal Methods. Communications in Computer and Information Science, 2021, , 3-15.	0.5	0
49	Developing A New Language to Construct Algebraic Hierarchies for Event-B. Lecture Notes in Computer Science, 2018, , 135-141.	1.3	0
50	Domain-Specific Scenarios for Refinement-Based Methods. Communications in Computer and Information Science, 2019, , 18-31.	0.5	0