

# Ullrich Hustadt

## List of Publications by Year in descending order

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50  
papers

834  
citations

567247

15  
h-index

610883

24  
g-index

53  
all docs

53  
docs citations

53  
times ranked

309  
citing authors

#	ARTICLE	IF	CITATIONS
1	Local is Best: Efficient Reductions to Modal Logic K. Journal of Automated Reasoning, 2022, 66, 639-666.	1.4	1
2	Efficient Local Reductions to Basic Modal Logic. Lecture Notes in Computer Science, 2021, , 76-92.	1.3	7
3	A Resolution-Based Theorem Prover for $\text{K}_{n}^{\text{ext}}$ : Architecture, Refinements, Strategies and Experiments. Journal of Automated Reasoning, 2020, 64, 461-484.	1.4	11
4	Multi-scale verification of distributed synchronisation. Formal Methods in System Design, 2020, 55, 171-221.	0.8	3
5	Theorem Proving for Pointwise Metric Temporal Logic Over the Naturals via Translations. Journal of Automated Reasoning, 2020, 64, 1553-1610.	1.4	3
6	Modal Resolution. ACM Transactions on Computational Logic, 2019, 20, 1-38.	0.9	8
7	The Power of Synchronisation: Formal Analysis of Power Consumption in Networks of Pulse-Coupled Oscillators. Lecture Notes in Computer Science, 2018, , 160-176.	1.3	6
8	Theorem Proving for Metric Temporal Logic over the Naturals. Lecture Notes in Computer Science, 2017, , 326-343.	1.3	5
9	Investigating Parametric Influence on Discrete Synchronisation Protocols Using Quantitative Model Checking. Lecture Notes in Computer Science, 2017, , 224-239.	1.3	7
10	KSP: A Resolution-based Prover for Multimodal K, Abridged Report. , 2017, , .		7
11	: A Resolution-Based Prover for Multimodal K. Lecture Notes in Computer Science, 2016, , 406-415.	1.3	10
12	Probabilistic Model Checking of Ant-Based Positionless Swarming. Lecture Notes in Computer Science, 2016, , 127-138.	1.3	8
13	A Modal-Layered Resolution Calculus for K. Lecture Notes in Computer Science, 2015, , 185-200.	1.3	7
14	Ordered Resolution for Coalition Logic. Lecture Notes in Computer Science, 2015, , 169-184.	1.3	2
15	A resolution-based calculus for Coalition Logic. Journal of Logic and Computation, 2014, 24, 883-917.	0.8	5
16	A resolution calculus for the branching-time temporal logic CTL. ACM Transactions on Computational Logic, 2014, 15, 1-38.	0.9	8
17	First-Order Resolution Methods for Modal Logics. Lecture Notes in Computer Science, 2013, , 345-391.	1.3	11
18	CTL-RP: A computation tree logic resolution prover. AI Communications, 2010, 23, 111-136.	1.2	3

#	ARTICLE	IF	CITATIONS
19	Implementing a fair monodic temporal logic prover. <i>AI Communications</i> , 2010, 23, 69-96.	1.2	14
20	Resolution-Based Model Construction for PLTL. , 2009, , .		3
21	A Refined Resolution Calculus for CTL. <i>Lecture Notes in Computer Science</i> , 2009, , 245-260.	1.3	6
22	Fair Derivations in Monodic Temporal Reasoning. <i>Lecture Notes in Computer Science</i> , 2009, , 261-276.	1.3	6
23	Deciding expressive description logics in the framework of resolution. <i>Information and Computation</i> , 2008, 206, 579-601.	0.7	22
24	The axiomatic translation principle for modal logic. <i>ACM Transactions on Computational Logic</i> , 2007, 8, 19.	0.9	16
25	4 Computational modal logic. <i>Studies in Logic and Practical Reasoning</i> , 2007, 3, 181-245.	1.4	34
26	Reasoning in Description Logics by a Reduction to Disjunctive Datalog. <i>Journal of Automated Reasoning</i> , 2007, 39, 351-384.	1.4	101
27	Verification Within the KARO Agent Theory. <i>NASA Monographs in Systems and Software Engineering</i> , 2006, , 193-225.	0.1	5
28	Mechanising first-order temporal resolution. <i>Information and Computation</i> , 2005, 199, 55-86.	0.7	26
29	Deciding Monodic Fragments by Temporal Resolution. <i>Lecture Notes in Computer Science</i> , 2005, , 204-218.	1.3	5
30	A Decomposition Rule for Decision Procedures by Resolution-Based Calculi. <i>Lecture Notes in Computer Science</i> , 2005, , 21-35.	1.3	37
31	TeMP: A Temporal Monodic Prover. <i>Lecture Notes in Computer Science</i> , 2004, , 326-330.	1.3	20
32	Interactions between Knowledge, Action and Commitment within Agent Dynamic Logic. <i>Studia Logica</i> , 2004, 78, 381-415.	0.6	13
33	Hyperresolution for guarded formulae. <i>Journal of Symbolic Computation</i> , 2003, 36, 163-192.	0.8	19
34	A Principle for Incorporating Axioms into the First-Order Translation of Modal Formulae. <i>Lecture Notes in Computer Science</i> , 2003, , 412-426.	1.3	18
35	TRP++ 2.0: A Temporal Resolution Prover. <i>Lecture Notes in Computer Science</i> , 2003, , 274-278.	1.3	36
36	Mechanised Reasoning and Model Generation for Extended Modal Logics. <i>Lecture Notes in Computer Science</i> , 2003, , 38-67.	1.3	9

#	ARTICLE	IF	CITATIONS
37	Combinations of Modal Logics. <i>Artificial Intelligence Review</i> , 2002, 17, 1-20.	15.7	34
38	Using Resolution for Testing Modal Satisfiability and Building Models. <i>Journal of Automated Reasoning</i> , 2002, 28, 205-232.	1.4	23
39	A New Clausal Class Decidable by Hyperresolution. <i>Lecture Notes in Computer Science</i> , 2002, , 260-274.	1.3	7
40	Resolution Decision Procedures. , 2001, , 1791-1849.		74
41	Verification within the KARO Agent Theory. <i>Lecture Notes in Computer Science</i> , 2001, , 33-47.	1.3	5
42	Computational Space Efficiency and Minimal Model Generation for Guarded Formulae. <i>Lecture Notes in Computer Science</i> , 2001, , 85-99.	1.3	9
43	A Resolution Decision Procedure for Fluted Logic. <i>Lecture Notes in Computer Science</i> , 2000, , 433-448.	1.3	29
44	MSPASS: Modal Reasoning by Translation and First-Order Resolution. <i>Lecture Notes in Computer Science</i> , 2000, , 67-71.	1.3	42
45	Issues of Decidability for Description Logics in the Framework of Resolution. <i>Lecture Notes in Computer Science</i> , 2000, , 191-205.	1.3	36
46	An empirical analysis of modal theorem provers. <i>Journal of Applied Non-Classical Logics</i> , 1999, 9, 479-522.	0.5	25
47	Maslov's Class K Revisited. <i>Lecture Notes in Computer Science</i> , 1999, , 172-186.	1.3	14
48	Simplification and Backjumping in Modal Tableau. <i>Lecture Notes in Computer Science</i> , 1998, , 187-201.	1.3	13
49	Optimised Functional Translation and Resolution. <i>Lecture Notes in Computer Science</i> , 1998, , 36-37.	1.3	5
50	A Resolution Prover for Coalition Logic. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 146, 65-73.	0.8	2