

# Atienne AndrÃ©

## List of Publications by Year in descending order

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docs citations

94  
times ranked

311  
citing authors

#	ARTICLE	IF	CITATIONS
1	IMITATOR 2.5: A Tool for Analyzing Robustness in Scheduling Problems. Lecture Notes in Computer Science, 2012, , 33-36.	1.3	66
2	AN INVERSE METHOD FOR PARAMETRIC TIMED AUTOMATA. International Journal of Foundations of Computer Science, 2009, 20, 819-836.	1.1	62
3	Modeling and verifying hierarchical real-time systems using stateful timed CSP. ACM Transactions on Software Engineering and Methodology, 2013, 22, 1-29.	6.0	51
4	Whatâ€™s decidable about parametric timed automata?. International Journal on Software Tools for Technology Transfer, 2019, 21, 203-219.	1.9	39
5	A Formal Semantics for Complete UML State Machines with Communications. Lecture Notes in Computer Science, 2013, , 331-346.	1.3	27
6	Learning Assumptions for Compositional Verification of Timed Systems. IEEE Transactions on Software Engineering, 2014, 40, 137-153.	5.6	21
7	Optimizing selection of competing services with probabilistic hierarchical refinement. , 2016, , .		19
8	Whatâ€™s Decidable About Parametric Timed Automata?. Communications in Computer and Information Science, 2016, , 52-68.	0.5	19
9	Automated runtime recovery for QoS-based service composition. , 2014, , .		18
10	Offline Timed Pattern Matching under Uncertainty. , 2018, , .		18
11	IMITATOR 3: Synthesis of Timing Parameters Beyond Decidability. Lecture Notes in Computer Science, 2021, , 552-565.	1.3	17
12	Observer Patterns for Real-Time Systems. , 2013, , .		15
13	Liveness in L/U-Parametric Timed Automata. , 2017, , .		15
14	Language Preservation Problems in Parametric Timed Automata. Lecture Notes in Computer Science, 2015, , 27-43.	1.3	15
15	Decision Problems for Parametric Timed Automata. Lecture Notes in Computer Science, 2016, , 400-416.	1.3	15
16	An Efficient Algorithm for Learning Event-Recording Automata. Lecture Notes in Computer Science, 2011, , 463-472.	1.3	15
17	Formalizing non-concurrent UML state machines using colored petri nets. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2012, 37, 1-8.	0.7	11
18	Dynamic synthesis of local time requirement for service composition. , 2013, , .		11

#	ARTICLE	IF	CITATIONS
19	Repairing Timed Automata Clock Guards through Abstraction and Testing. Lecture Notes in Computer Science, 2019, , 129-146.	1.3	11
20	Behavioral Cartography of Timed Automata. Lecture Notes in Computer Science, 2010, , 76-90.	1.3	11
21	Formalising concurrent UML state machines using coloured Petri nets. Formal Aspects of Computing, 2016, 28, 805-845.	1.8	10
22	Merge and Conquer: State Merging in Parametric Timed Automata. Lecture Notes in Computer Science, 2013, , 381-396.	1.3	10
23	Translating UML State Machines to Coloured Petri Nets Using Acceleo: A Report. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 150, 1-7.	0.8	10
24	TCTL Model Checking Lower/Upper-Bound Parametric Timed Automata Without Invariants. Lecture Notes in Computer Science, 2018, , 37-52.	1.3	9
25	Parametric Schedulability Analysis of Fixed Priority Real-Time Distributed Systems. Communications in Computer and Information Science, 2014, , 212-228.	0.5	9
26	Learning-Based Compositional Parameter Synthesis for Event-Recording Automata. Lecture Notes in Computer Science, 2017, , 17-32.	1.3	9
27	Synthesis of Timing Parameters Satisfying Safety Properties. Lecture Notes in Computer Science, 2011, , 31-44.	1.3	9
28	Activity Diagrams Patterns for Modeling Business Processes. Studies in Computational Intelligence, 2014, , 197-213.	0.9	9
29	CosyVerif: An Open Source Extensible Verification Environment. , 2013, , .		8
30	An extension of the inverse method to probabilistic timed automata. Formal Methods in System Design, 2013, 42, 119-145.	0.8	8
31	Parametric Analyses of Attack-Fault Trees. , 2019, , .		8
32	A Benchmarks Library for Extended Parametric Timed Automata. Lecture Notes in Computer Science, 2021, , 39-50.	1.3	8
33	Integer-Complete Synthesis for Bounded Parametric Timed Automata. Lecture Notes in Computer Science, 2015, , 7-19.	1.3	8
34	Synth�se de contraintes temporelles pour une architecture d'automatisation en r�seau. Journal European Des Systemes Automatis�s, 2009, 43, 1049-1064.	0.4	8
35	IMITATOR II: A Tool for Solving the Good Parameters Problem in Timed Automata. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 39, 91-99.	0.8	8
36	An Inverse Method for Parametric Timed Automata. Electronic Notes in Theoretical Computer Science, 2008, 223, 29-46.	0.9	7

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37	Online Parametric Timed Pattern Matching with Automata-Based Skipping. Lecture Notes in Computer Science, 2019, , 371-389.	1.3	7
38	A Benchmark Library for Parametric Timed Model Checking. Communications in Computer and Information Science, 2019, , 75-83.	0.5	7
39	Iterative Bounded Synthesis for Efficient Cycle Detection in Parametric Timed Automata. Lecture Notes in Computer Science, 2021, , 311-329.	1.3	7
40	Reachability Preservation Based Parameter Synthesis for Timed Automata. Lecture Notes in Computer Science, 2015, , 50-65.	1.3	7
41	IMITATOR: A Tool for Synthesizing Constraints on Timing Bounds of Timed Automata. Lecture Notes in Computer Science, 2009, , 336-342.	1.3	7
42	Timed Automata as a Formalism for Expressing Security: A Survey on Theory and Practice. ACM Computing Surveys, 2023, 55, 1-36.	23.0	7
43	Parameter synthesis for hierarchical concurrent real-time systems. Real-Time Systems, 2014, 50, 620-679.	1.3	6
44	Model-bounded monitoring of hybrid systems. , 2021, , .		6
45	On the Expressiveness of Parametric Timed Automata. Lecture Notes in Computer Science, 2016, , 19-34.	1.3	6
46	Automatic Compositional Verification of Timed Systems. Lecture Notes in Computer Science, 2012, , 272-276.	1.3	6
47	Parametric non-interference in timed automata. , 2020, , .		6
48	Guaranteeing Timed Opacity using Parametric Timed Model Checking. ACM Transactions on Software Engineering and Methodology, 2022, 31, 1-36.	6.0	6
49	Toward Parametric Timed Interfaces for Real-Time Components. Electronic Proceedings in Theoretical Computer Science, EPTCS, 2014, 145, 49-64.	0.8	5
50	Verification of an Industrial Asynchronous Leader Election Algorithm Using Abstractions and Parametric Model Checking. Lecture Notes in Computer Science, 2019, , 409-424.	1.3	5
51	Parametric Model Checking Timed Automata Under Non-Zenoness Assumption. Lecture Notes in Computer Science, 2017, , 35-51.	1.3	5
52	Distributed Behavioral Cartography of Timed Automata. , 2014, , .		4
53	Precise Robustness Analysis of Time Petri Nets with Inhibitor Arcs. Lecture Notes in Computer Science, 2013, , 1-15.	1.3	4
54	Parametric Verification: An Introduction. Lecture Notes in Computer Science, 2019, , 64-100.	1.3	4

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55	A Modular Approach for Reusing Formalisms in Verification Tools of Concurrent Systems. Lecture Notes in Computer Science, 2013, , 199-214.	1.3	4
56	Symbolic Monitoring Against Specifications Parametric in Time and Data. Lecture Notes in Computer Science, 2019, , 520-539.	1.3	4
57	Parametric Updates in Parametric Timed Automata. Lecture Notes in Computer Science, 2019, , 39-56.	1.3	3
58	Parametric Timed Model Checking for Guaranteeing Timed Opacity. Lecture Notes in Computer Science, 2019, , 115-130.	1.3	3
59	Classification-Based Parameter Synthesis for Parametric Timed Automata. Lecture Notes in Computer Science, 2017, , 243-261.	1.3	3
60	A Unified Formalism for Monoprocessor Schedulability Analysis Under Uncertainty. Lecture Notes in Computer Science, 2017, , 100-115.	1.3	3
61	Model-bounded Monitoring of Hybrid Systems. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-26.	2.5	3
62	Parametric Timed Pattern Matching. ACM Transactions on Software Engineering and Methodology, 0, , .	6.0	3
63	Component-Based Abstraction of Petri Net Models. , 2015, , .		2
64	Timed Automata with Parametric Updates. , 2018, , .		2
65	Parametric Timed Broadcast Protocols. Lecture Notes in Computer Science, 2019, , 491-512.	1.3	2
66	PeCAN: Compositional Verification of Petri Nets Made Easy. Lecture Notes in Computer Science, 2014, , 242-247.	1.3	2
67	PSyHCoS: Parameter Synthesis for Hierarchical Concurrent Real-Time Systems. Lecture Notes in Computer Science, 2013, , 984-989.	1.3	2
68	A Counterexample-Based Incremental and Modular Verification Approach. Lecture Notes in Computer Science, 2012, , 283-302.	1.3	2
69	Applying Parametric Model-Checking Techniques for Reusing Real-Time Critical Systems. Communications in Computer and Information Science, 2017, , 129-144.	0.5	2
70	Timed ATL: Forget Memory, Just Count. Journal of Artificial Intelligence Research, 0, 66, 197-223.	7.0	2
71	Parameter Synthesis for Hierarchical Concurrent Real-Time Systems. , 2012, , .		1
72	Controlling Actions and Time in Parametric Timed Automata. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
73	Consistency in Parametric Interval Probabilistic Timed Automata. , 2016, , .		1
74	The language preservation problem is undecidable for parametric event-recording automata. Information Processing Letters, 2018, 136, 17-20.	0.6	1
75	Parametric Schedulability Analysis of a Launcher Flight Control System Under Reactivity Constraints. , 2019, , .		1
76	Consistency in Parametric Interval Probabilistic Timed Automata. Journal of Logical and Algebraic Methods in Programming, 2020, 110, 100459.	0.5	1
77	Automated synthesis of local time requirement for service composition. Software and Systems Modeling, 2020, 19, 983-1013.	2.7	1
78	Modelling Timed Concurrent Systems Using Activity Diagram Patterns. Advances in Intelligent Systems and Computing, 2015, , 339-351.	0.6	1
79	Preserving Partial-Order Runs in Parametric Time Petri Nets. Transactions on Embedded Computing Systems, 2017, 16, 1-26.	2.9	1
80	Time4sys2imi: A Tool to Formalize Real-Time System Models Under Uncertainty. Lecture Notes in Computer Science, 2019, , 113-123.	1.3	1
81	Zone Extrapolations in Parametric Timed Automata. Lecture Notes in Computer Science, 2022, , 451-469.	1.3	1
82	Offline and Online Monitoring of Scattered Uncertain Logs Using Uncertain Linear Dynamical Systems. Lecture Notes in Computer Science, 2022, , 67-87.	1.3	1
83	Teaching formal methods: Experience at UPMC and UP13 with CosyVerif. , 2014, , .		0
84	Preserving Partial Order Runs in Parametric Time Petri Nets. , 2015, , .		0
85	Decrypting cryptography. , 2015, , .		0
86	On the Expressive Power of Invariants in Parametric Timed Automata. , 2019, , .		0