

Stavros Tripakis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

2,293
citations

27
h-index

43
g-index

125
ext. papers

2,617
ext. citations

1.2
avg, IF

5.33
L-index

#	Paper	IF	Citations
121	Decentralized Observation of Discrete-Event Systems: At Least One Can Tell 2021 , 1-1		
120	The refinement calculus of reactive systems. <i>Information and Computation</i> , 2021 , 104819	0.8	
119	Learning Moore machines from input-output traces. <i>International Journal on Software Tools for Technology Transfer</i> , 2021 , 23, 1-29	1.3	3
118	The Refinement Calculus of Reactive Systems Toolset. <i>International Journal on Software Tools for Technology Transfer</i> , 2020 , 22, 689-708	1.3	3
117	Hybrid co-simulation: it's about time. <i>Software and Systems Modeling</i> , 2019 , 18, 1655-1679	1.9	25
116	Mechanically Proving Determinacy of Hierarchical Block Diagram Translations. <i>Lecture Notes in Computer Science</i> , 2019 , 577-600	0.9	2
115	Constrained synthesis from component libraries. <i>Science of Computer Programming</i> , 2019 , 171, 21-41	1.1	4
114	Basic problems in multi-view modeling. <i>Software and Systems Modeling</i> , 2019 , 18, 1577-1611	1.9	2
113	Specification decomposition for synthesis from libraries of LTL Assume/Guarantee contracts 2018 ,		1
112	Checking multi-view consistency of discrete systems with respect to periodic sampling abstractions. <i>Science of Computer Programming</i> , 2018 , 167, 1-24	1.1	
111	Modular Code Generation from Synchronous Block Diagrams: Interfaces, Abstraction, Compositionality. <i>Lecture Notes in Computer Science</i> , 2018 , 449-477	0.9	0
110	The Refinement Calculus of Reactive Systems Toolset. <i>Lecture Notes in Computer Science</i> , 2018 , 201-208	0.9	4
109	The Science of Software and System Design. <i>IFAC-PapersOnLine</i> , 2018 , 51, 505-507	0.7	
108	Modeling for Verification 2018 , 75-105		3
107	Data-driven and model-based design 2018 ,		7
106	Supervisory control and reactive synthesis: a comparative introduction. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2017 , 27, 209-260	1	29
105	Automatic Synthesis of Distributed Protocols. <i>ACM SIGACT News</i> , 2017 , 48, 55-90	0.3	13

104	Runtime enforcement of reactive systems using synchronous enforcers 2017 ,		8
103	Predictive runtime enforcement. <i>Formal Methods in System Design</i> , 2017 , 51, 154-199	1.4	10
102	Predictive runtime verification of timed properties. <i>Journal of Systems and Software</i> , 2017 , 132, 353-365	3.3	19
101	Runtime Enforcement of Cyber-Physical Systems. <i>Transactions on Embedded Computing Systems</i> , 2017 , 16, 1-25	1.8	15
100	When Do We Not Need Complex Assume-Guarantee Rules?. <i>Transactions on Embedded Computing Systems</i> , 2017 , 16, 1-25	1.8	2
99	Checking Multi-view Consistency of Discrete Systems with Respect to Periodic Sampling Abstractions. <i>Lecture Notes in Computer Science</i> , 2017 , 73-91	0.9	1
98	Constrained Synthesis from Component Libraries. <i>Lecture Notes in Computer Science</i> , 2017 , 92-110	0.9	1
97	Type Inference of Simulink Hierarchical Block Diagrams in Isabelle. <i>Lecture Notes in Computer Science</i> , 2017 , 194-209	0.9	6
96	Tokens vs. Signals: On Conformance between Formal Models of Dataflow and Hardware. <i>Journal of Signal Processing Systems</i> , 2016 , 85, 23-43	1.4	3
95	Step revision in hybrid Co-simulation with FMI 2016 ,		10
94	FIDE 2016 ,		14
93	Predictive runtime enforcement 2016 ,		5
92	Compositional Runtime Enforcement. <i>Lecture Notes in Computer Science</i> , 2016 , 82-99	0.9	4
91	Learning Moore Machines from Input-Output Traces. <i>Lecture Notes in Computer Science</i> , 2016 , 291-309	0.9	12
90	Towards Compositional Feedback in Non-Deterministic and Non-Input-Receptive Systems 2016 ,		8
89	Multi-view consistency for infinitary regular languages 2016 ,		1
88	Compositionality in the Science of System Design. <i>Proceedings of the IEEE</i> , 2016 , 104, 960-972	14.3	27
87	Compositional Semantics and Analysis of Hierarchical Block Diagrams. <i>Lecture Notes in Computer Science</i> , 2016 , 38-56	0.9	14

86	Compositional Model-Based System Design and Other Foundations for Mastering Change. <i>Lecture Notes in Computer Science</i> , 2016 , 113-129	0.9	2
85	Requirements for hybrid cosimulation standards 2015 ,		27
84	Bridging the semantic gap between heterogeneous modeling formalisms and FMI 2015 ,		20
83	Towards cyber-physical agnosticism by enhancing IEC 61499 with PTIDES model of computations 2015 ,		12
82	2015 ,		2
81	Co-Simulation of Hybrid Systems with SpaceX and Uppaal 2015 ,		12
80	Automatic Completion of Distributed Protocols with Symmetry. <i>Lecture Notes in Computer Science</i> , 2015 , 395-412	0.9	10
79	Optimized implementation of synchronous models on industrial LTTA systems. <i>Journal of Systems Architecture</i> , 2014 , 60, 315-328	5.5	3
78	On tokens and signals: Bridging the semantic gap between dataflow models and hardware implementations 2014 ,		1
77	Bridging the Gap between Supervisory Control and Reactive Synthesis: Case of Full Observation and Centralized Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 222-227		11
76	Library-based scalable refinement checking for contract-based design 2014 ,		7
75	Game theoretic secure localization in wireless sensor networks 2014 ,		4
74	Are interface theories equivalent to contract theories? 2014 ,		7
73	Refinement calculus of reactive systems 2014 ,		12
72	Library-based scalable refinement checking for contract-based design 2014 ,		2
71	Synthesizing Finite-State Protocols from Scenarios and Requirements. <i>Lecture Notes in Computer Science</i> , 2014 , 75-91	0.9	21
70	Feedback in Synchronous Relational Interfaces. <i>Lecture Notes in Computer Science</i> , 2014 , 249-266	0.9	1
69	Basic Problems in Multi-View Modeling. <i>Lecture Notes in Computer Science</i> , 2014 , 217-232	0.9	15

68	Determinate composition of FMUs for co-simulation 2013 ,		59
67	A characterization of integrated multi-view modeling in the context of embedded and cyber-physical systems 2013 ,		33
66	Compositionality in synchronous data flow. <i>Transactions on Embedded Computing Systems</i> , 2013 , 12, 1-26.	1.8	33
65	A modular formal semantics for Ptolemy II. <i>Mathematical Structures in Computer Science</i> , 2013 , 23, 834-881.	1.5	28
64	Cyber-physical system design contracts 2013 ,		59
63	On the Verification of Timed Discrete-Event Models. <i>Lecture Notes in Computer Science</i> , 2013 , 213-227	0.9	2
62	Error-Completion in Interface Theories. <i>Lecture Notes in Computer Science</i> , 2013 , 358-375	0.9	2
61	Verifying hierarchical Ptolemy II discrete-event models using Real-Time Maude. <i>Science of Computer Programming</i> , 2012 , 77, 1235-1271	1.1	15
60	Viewpoints, formalisms, languages, and tools for cyber-physical systems 2012 ,		42
59	Static dataflow with access patterns 2012 ,		5
58	Correct and non-defensive glue design using abstract models 2011 ,		7
57	The earlier the better 2011 ,		32
56	A Theory of Synchronous Relational Interfaces. <i>ACM Transactions on Programming Languages and Systems</i> , 2011 , 33, 1-41	1.6	43
55	Exploring models of computation with ptolemy II 2010 ,		13
54	Checking timed BDD automata emptiness on simulation graphs. <i>ACM Transactions on Computational Logic</i> , 2009 , 10, 1-19	0.9	28
53	Conformance testing for real-time systems. <i>Formal Methods in System Design</i> , 2009 , 34, 238-304	1.4	100
52	Modular code generation from synchronous block diagrams. <i>ACM SIGPLAN Notices</i> , 2009 , 44, 78-89	0.2	6
51	On relational interfaces 2009 ,		13

50	Scalable Semantic Annotation Using Lattice-Based Ontologies. <i>Lecture Notes in Computer Science</i> , 2009 , 393-407	0.9	17
49	A Combined On-Line/Off-Line Framework for Black-Box Fault Diagnosis. <i>Lecture Notes in Computer Science</i> , 2009 , 152-167	0.9	3
48	Verifying Ptolemy II Discrete-Event Models Using Real-Time Maude. <i>Lecture Notes in Computer Science</i> , 2009 , 717-736	0.9	21
47	Translating data flow to synchronous block diagrams 2008 ,		2
46	Implementing Synchronous Models on Loosely Time Triggered Architectures. <i>IEEE Transactions on Computers</i> , 2008 , 57, 1300-1314	2.5	53
45	Modular Code Generation from Triggered and Timed Block Diagrams 2008 ,		19
44	State identification problems for input/output transition systems 2008 ,		3
43	Fault diagnosis with dynamic observers 2008 ,		5
42	Modularity vs. reusability 2008 ,		19
41	Modular code generation from synchronous block diagrams 2008 ,		12
40	Semantics-preserving multitask implementation of synchronous programs. <i>Transactions on Embedded Computing Systems</i> , 2008 , 7, 1-40	1.8	26
39	Modularity vs. Reusability: Code Generation from Synchronous Block Diagrams 2008 ,		5
38	Automatic generation of path conditions for concurrent timed systems. <i>Theoretical Computer Science</i> , 2008 , 404, 275-292	1.1	1
37	Test Case Generation for Ultimately Periodic Paths 2008 , 120-135		1
36	Deep Random Search for Efficient Model Checking of Timed Automata. <i>Lecture Notes in Computer Science</i> , 2008 , 111-124	0.9	1
35	Resource-Aware Verification Using Randomized Exploration of Large State Spaces. <i>Lecture Notes in Computer Science</i> , 2008 , 214-231	0.9	2
34	Sensor Minimization Problems with Static or Dynamic Observers for Fault Diagnosis 2007 ,		19
33	Loosely time-triggered architectures based on communication-by-sampling 2007 ,		19

32	Synthesis Of Optimal-Cost Dynamic Observers for Fault Diagnosis of Discrete-Event Systems 2007 ,		6
31	Folk theorems on the determinization and minimization of timed automata. <i>Information Processing Letters</i> , 2006 , 99, 222-226	0.8	22
30	A memory-optimal buffering protocol for preservation of synchronous semantics under preemptive scheduling 2006 ,		29
29	Communication by sampling in time-sensitive distributed systems 2006 ,		4
28	Testing Conformance of Real-Time Applications by Automatic Generation of Observers. <i>Electronic Notes in Theoretical Computer Science</i> , 2005 , 113, 23-43	0.7	18
27	Checking Timed Büchi Automata Emptiness Efficiently. <i>Formal Methods in System Design</i> , 2005 , 26, 267-292	4	46
26	State Identification Problems for Timed Automata. <i>Lecture Notes in Computer Science</i> , 2005 , 175-191	0.9	4
25	Translating discrete-time simulink to lustre. <i>Transactions on Embedded Computing Systems</i> , 2005 , 4, 779-818	90	
24	Generating Path Conditions for Timed Systems. <i>Lecture Notes in Computer Science</i> , 2005 , 5-19	0.9	2
23	Implementation of Timed Automata: An Issue of Semantics or Modeling?. <i>Lecture Notes in Computer Science</i> , 2005 , 273-288	0.9	30
22	Decentralized control of discrete-event Systems With bounded or Unbounded Delay communication. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1489-1501	5.9	72
21	Black-Box Conformance Testing for Real-Time Systems. <i>Lecture Notes in Computer Science</i> , 2004 , 109-126	9	85
20	Undecidable problems of decentralized observation and control on regular languages. <i>Information Processing Letters</i> , 2004 , 90, 21-28	0.8	62
19	Real-Time Testing with Timed Automata Testers and Coverage Criteria. <i>Lecture Notes in Computer Science</i> , 2004 , 134-151	0.9	9
18	Folk Theorems on the Determinization and Minimization of Timed Automata. <i>Lecture Notes in Computer Science</i> , 2004 , 182-188	0.9	11
17	From simulink to SCADE/lustre to TTA 2003 ,		49
16	From simulink to SCADE/lustre to TTA. <i>ACM SIGPLAN Notices</i> , 2003 , 38, 153-162	0.2	34
15	Translating Discrete-Time Simulink to Lustre. <i>Lecture Notes in Computer Science</i> , 2003 , 84-99	0.9	27

14	Automated Module Composition. <i>Lecture Notes in Computer Science</i> , 2003 , 347-362	0.9	3
13	Automated Composition of Module Chains. <i>Electronic Notes in Theoretical Computer Science</i> , 2002 , 65, 81-90	0.7	1
12	Fault Diagnosis for Timed Automata. <i>Lecture Notes in Computer Science</i> , 2002 , 205-221	0.9	90
11	Description and Schedulability Analysis of the Software Architecture of an Automated Vehicle Control System. <i>Lecture Notes in Computer Science</i> , 2002 , 123-137	0.9	5
10	Timing Analysis and Code Generation of Vehicle Control Software using Taxys. <i>Electronic Notes in Theoretical Computer Science</i> , 2001 , 55, 277-286	0.7	6
9	Analysis of Timed Systems Using Time-Abstracting Bisimulations. <i>Formal Methods in System Design</i> , 2001 , 18, 25-68	1.4	80
8	Efficient Verification of Timed Automata Using Dense and Discrete Time Semantics. <i>Lecture Notes in Computer Science</i> , 1999 , 125-141	0.9	22
7	On-the-Fly Controller Synthesis for Discrete and Dense-Time Systems. <i>Lecture Notes in Computer Science</i> , 1999 , 233-252	0.9	27
6	Verifying Progress in Timed Systems. <i>Lecture Notes in Computer Science</i> , 1999 , 299-314	0.9	40
5	Kronos: A model-checking tool for real-time systems. <i>Lecture Notes in Computer Science</i> , 1998 , 546-550	0.9	118
4	Model checking of real-time reachability properties using abstractions. <i>Lecture Notes in Computer Science</i> , 1998 , 313-329	0.9	81
3	Kronos: A model-checking tool for real-time systems. <i>Lecture Notes in Computer Science</i> , 1998 , 298-302	0.9	20
2	Extending promela and spin for real time. <i>Lecture Notes in Computer Science</i> , 1996 , 329-348	0.9	26
1	Fault Diagnosis of Timed Systems107-138		0