Oleg Sokolsky

List of Publications by Year in descending order

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394421 377865 2,246 90 19 34 citations g-index h-index papers 92 92 92 1581 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Assurance Case Patterns for Cyber-Physical Systems with Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 82-97.	1.3	4
2	A Retrospective Look at the Monitoring and Checking (MaC) Framework. Lecture Notes in Computer Science, 2019, , 1-14.	1.3	1
3	Co-Design of Arbitrated Network Control Systems With Overrun Strategies. IEEE Transactions on Control of Network Systems, 2018, 5, 128-141.	3.7	13
4	Resiliency in Cyber-Physical Systems [Guest Editors' Introduction]. Computer, 2018, 51, 10-12.	1.1	2
5	LogSafe: Secure and Scalable Data Logger for IoT Devices. , 2018, , .		11
6	Data Freshness Over-Engineering: Formulation and Results. , 2018, , .		5
7	Multi-Mode Virtualization for Soft Real-Time Systems. , 2018, , .		8
8	Cyber-Physical System Checkpointing and Recovery. , 2018, , .		37
9	A process algebraic approach to the schedulability analysis and workload abstraction of hierarchical real-time systems. Journal of Logical and Algebraic Methods in Programming, 2017, 92, 1-18.	0.5	2
10	Reasoning About Confidence and Uncertainty in Assurance Cases: A Survey. Lecture Notes in Computer Science, 2017, , 64-80.	1.3	8
11	A stochastic approach for attack resilient UAV motion planning. , 2016, , .		6
12	Cloud-Based Secure Logger for Medical Devices. , 2016, , .		20
13	Representation of Confidence in Assurance Cases Using the Beta Distribution. , 2016, , .		12
14	SMEDL: Combining Synchronous and Asynchronous Monitoring. Lecture Notes in Computer Science, 2016, , 482-490.	1.3	6
15	Executing Model-Based Tests on Platform-Specific Implementations (T). , 2015, , .		O
16	Automatic verification of linear controller software. , 2015, , .		10
17	Hierarchical multi-formalism proofs of cyber-physical systems. , 2015, , .		2
18	Cache-aware compositional analysis of real-time multicore virtualization platforms. Real-Time Systems, 2015, 51, 675-723.	1.3	15

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19	Patient Infusion Pattern based Access Control Schemes for Wireless Insulin Pump System. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 3108-3121.	5. 6	38
20	Towards Assurance for Plug & Play Medical Systems. Lecture Notes in Computer Science, 2015, , 228-242.	1.3	6
21	Towards Assurance Cases for Resilient Control Systems. , 2014, , .		3
22	Real-time multi-core virtual machine scheduling in xen. , 2014, , .		68
23	Attack-resilient minimum mean-squared error estimation. , 2014, , .		2
24	Robustness of attack-resilient state estimators. , 2014, , .		162
25	Functional Alarms for Systems of Interoperable Medical Devices. , 2014, 2014, 247-248.		1
26	Attack resilient state estimation for autonomous robotic systems. , 2014, , .		42
27	Overhead-aware compositional analysis of real-time systems. , 2013, , .		20
28	AS-CRED: Reputation and Alert Service for Interdomain Routing. IEEE Systems Journal, 2013, 7, 396-409.	4.6	8
29	Cache-Aware Compositional Analysis of Real-Time Multicore Virtualization Platforms. , 2013, , .		28
30	Assuring the safety of on-demand medical cyber-physical systems. , 2013, , .		14
31	Towards synthesis of platform-aware attack-resilient control systems. , 2013, , .		9
32	Model-Based Development of the Generic PCA Infusion Pump User Interface Prototype in PVS. Lecture Notes in Computer Science, 2013, , 228-240.	1.3	21
33	From Verification to Implementation: A Model Translation Tool and a Pacemaker Case Study., 2012,,.		44
34	Realizing Compositional Scheduling through Virtualization. , 2012, , .		49
35	Introduction to the special section on runtime verification. International Journal on Software Tools for Technology Transfer, 2012, 14, 243-247.	1.9	21
36	PADS: An approach to modeling resource demand and supply for the formal analysis of hierarchical scheduling. Theoretical Computer Science, 2012, 413, 2-20.	0.9	11

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37	Challenges and Research Directions in Medical Cyber–Physical Systems. Proceedings of the IEEE, 2012, 100, 75-90.	21.3	258
38	Runtime Verification of Traces under Recording Uncertainty. Lecture Notes in Computer Science, 2012, , 442-456.	1.3	9
39	A Systematic Approach to Justifying Sufficient Confidence in Software Safety Arguments. Lecture Notes in Computer Science, 2012, , 305-316.	1.3	19
40	A Semantic Framework for Mode Change Protocols. , 2011, , .		10
41	Removing Abstraction Overhead in the Composition of Hierarchical Real-Time Systems. , 2011, , .		9
42	Permission to speak: A logic for access control and conformance. The Journal of Logic and Algebraic Programming, 2011, 80, 50-74.	1.4	11
43	Medical Cyber-Physical Systems. , 2011, , .		11
44	Safety-assured development of the GPCA infusion pump software. , 2011, , .		54
45	Improving resource utilization for compositional scheduling using DPRM interfaces. ACM SIGBED Review, 2011, 8, 38-45.	1.8	11
46	CARTS. ACM SIGBED Review, 2011, 8, 62-63.	1.8	26
47	Compositional Analysis of Multi-mode Systems. , 2010, , .		36
48	Medical cyber physical systems. , 2010, , .		125
49	A Process Algebraic Framework for Modeling Resource Demand and Supply. Lecture Notes in Computer Science, 2010, , 183-197.	1.3	0
50	A Safety-Assured Development Approach for Real-Time Software. , 2010, , .		26
51	Assurance Cases in Model-Driven Development of the Pacemaker Software. Lecture Notes in Computer Science, 2010, , 343-356.	1.3	28
52	Dynamic Trust Management. Computer, 2009, 42, 44-52.	1.1	62
53	Process-Algebraic Interpretation of AADL Models. Lecture Notes in Computer Science, 2009, , 222-236.	1.3	12
54	DMaC: Distributed Monitoring and Checking. Lecture Notes in Computer Science, 2009, , 184-201.	1.3	17

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55	Reasoning about Conditions and Exceptions to Laws in Regulatory Conformance Checking. Lecture Notes in Computer Science, 2008, , 110-124.	1.3	23
56	Checking Traces for Regulatory Conformance. Lecture Notes in Computer Science, 2008, , 86-103.	1.3	21
57	Declarative Network Verification. Lecture Notes in Computer Science, 2008, , 61-75.	1.3	24
58	Logic-Based Regulatory Conformance Checking. Lecture Notes in Computer Science, 2008, , 147-160.	1.3	5
59	Statistical Runtime Checking of Probabilistic Properties. , 2007, , 164-175.		21
60	GENERATING PROPERTIES FOR RUNTIME MONITORING FROM SOFTWARE SPECIFICATION PATTERNS. International Journal of Software Engineering and Knowledge Engineering, 2007, 17, 107-126.	0.8	3
61	A Verifiable Language for Programming Real-Time Communication Schedules. IEEE Transactions on Computers, 2007, 56, 1505-1519.	3.4	25
62	Compositional Schedulability Analysis of Hierarchical Real-Time Systems. , 2007, , .		19
63	Resources in process algebra. The Journal of Logic and Algebraic Programming, 2007, 72, 98-122.	1.4	30
64	Unit & CHARON., 2006, , .		2
65	Steering of Discrete Event Systems: Control Theory Approach. Electronic Notes in Theoretical Computer Science, 2006, 144, 21-39.	0.9	18
66	Compositional modeling and refinement for hierarchical hybrid systems. The Journal of Logic and Algebraic Programming, 2006, 68, 105-128.	1.4	14
67	Incremental schedulability analysis of hierarchical real-time components. , 2006, , .		29
68	Simulation-Based Graph Similarity. Lecture Notes in Computer Science, 2006, , 426-440.	1.3	36
69	R-Charon, a Modeling Language for Reconfigurable Hybrid Systems. Lecture Notes in Computer Science, 2006, , 392-406.	1.3	14
70	Unit & Dynamic Typing in Hybrid Systems Modeling with CHARON., 2006,,.		1
71	Simulation of Simultaneous Events in Regular Expressions for Run-Time Verification. Electronic Notes in Theoretical Computer Science, 2005, 113, 123-143.	0.9	6
72	Real-time and embedded technology and applications symposium (RTAS '05). ACM SIGBED Review, 2005, 2, 1-2.	1.8	0

#	Article	IF	CITATIONS
73	Research challenges in embedded and hybrid systems. ACM SIGBED Review, 2004, 1, 1-5.	1.8	4
74	Java-MaC: A Run-Time Assurance Approach for Java Programs. Formal Methods in System Design, 2004, 24, 129-155.	0.8	169
75	A General Resource Framework for Real-Time Systems. Lecture Notes in Computer Science, 2004, , 234-248.	1.3	4
76	Generating embedded software from hierarchical hybrid models. ACM SIGPLAN Notices, 2003, 38, 171-182.	0.2	20
77	Modeling and Analysis of Power-Aware Systems. Lecture Notes in Computer Science, 2003, , 409-424.	1.3	8
78	Parametric approach to the specification and analysis of real-time scheduling based on ACSR-VP. Science of Computer Programming, 2002, 42, 49-60.	1.9	6
79	Computational Analysis of Run-time Monitoring. Electronic Notes in Theoretical Computer Science, 2002, 70, 80-94.	0.9	21
80	Monitoring, Checking, and Steering of Real-Time Systems. Electronic Notes in Theoretical Computer Science, 2002, 70, 95-111.	0.9	43
81	Equivalence and Preorder Checking for Finite-State Systems. , 2001, , 391-424.		34
82	A Family of Resource-Bound Real-Time Process Algebras. , 2001, , 443-458.		6
83	A Framework for Reasoning About Animation Systems. Lecture Notes in Computer Science, 2001, , 47-60.	1.3	5
84	Compositional Refinement for Hierarchical Hybrid Systems. Lecture Notes in Computer Science, 2001, , 33-48.	1.3	35
85	Weak Bisimulation for Probabilistic Systems. Lecture Notes in Computer Science, 2000, , 334-349.	1.3	71
86	Specification and analysis of real-time systems with PARAGON. Annals of Software Engineering, 1999, 7, 211-234.	0.5	16
87	Fighting Livelock in the i-Protocol: A Comparative Study of Verification Tools. Lecture Notes in Computer Science, 1999, , 74-88.	1.3	27
88	Probabilistic resource failure in real-time process algebra. Lecture Notes in Computer Science, 1998, , 389-404.	1.3	10
89	The Concurrency Factory: A development environment for concurrent systems. Lecture Notes in Computer Science, 1996, , 398-401.	1.3	20
90	The Concurrency Factory software development environment. Lecture Notes in Computer Science, 1996, , 391-395.	1.3	2