

Hillel Kugler

List of Publications by Year in descending order

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49
papers

1,068
citations

516710

16
h-index

454955

30
g-index

58
all docs

58
docs citations

58
times ranked

535
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the <i>C. elegans</i> germline stem cell genetic network using automated reasoning. <i>BioSystems</i> , 2022, 217, 104672.	2.0	2
2	Solving Exact Cover Instances with Molecular-Motor-Powered Network-Based Biocomputation. <i>ACS Nanoscience Au</i> , 2022, 2, 396-403.	4.8	4
3	Formal Analysis of Network Motifs Links Structure to Function in Biological Programs. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021, 18, 261-271.	3.0	7
4	Formal Semantics and Verification of Network-Based Biocomputation Circuits. <i>Lecture Notes in Computer Science</i> , 2021, , 464-485.	1.3	5
5	Design of network-based biocomputation circuits for the exact cover problem. <i>New Journal of Physics</i> , 2021, 23, 085004.	2.9	7
6	TEMPO: Thermal-Efficient Management of Power in High-Throughput Network Switches. , 2019, , .		0
7	BRE:IN - A Backend for Reasoning About Interaction Networks with Temporal Logic. <i>Lecture Notes in Computer Science</i> , 2019, , 289-295.	1.3	8
8	Temporal Logic Based Synthesis of Experimentally Constrained Interaction Networks. <i>Lecture Notes in Computer Science</i> , 2019, , 89-104.	1.3	3
9	Temporal Reasoning on Incomplete Paths. <i>Lecture Notes in Computer Science</i> , 2018, , 28-52.	1.3	7
10	Automated Synthesis and Analysis of Switching Gene Regulatory Networks. <i>BioSystems</i> , 2016, 146, 26-34.	2.0	16
11	Unifying Modelling and Programming: A Systems Biology Perspective. <i>Lecture Notes in Computer Science</i> , 2016, , 131-133.	1.3	2
12	How computational models contribute to our understanding of the germ line. <i>Molecular Reproduction and Development</i> , 2016, 83, 944-957.	2.0	3
13	A method to identify and analyze biological programs through automated reasoning. <i>Npj Systems Biology and Applications</i> , 2016, 2, .	3.0	42
14	Mechano-logical model of <i>C. elegans</i> germ line suggests feedback on the cell cycle. <i>Development (Cambridge)</i> , 2015, 142, 3902-11.	2.5	28
15	Switching Gene Regulatory Networks. <i>Lecture Notes in Computer Science</i> , 2015, , 131-144.	1.3	3
16	Mechano-logical model of <i>C. elegans</i> germ line suggests feedback on the cell cycle. <i>Journal of Cell Science</i> , 2015, 128, e1.2-e1.2.	2.0	0
17	Symbolic Approximation of the Bounded Reachability Probability in Large Markov Chains. <i>Lecture Notes in Computer Science</i> , 2014, , 388-403.	1.3	8
18	Biocharts: Unifying Biological Hypotheses with Models and Experiments. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
19	Functional Analysis of Large-Scale DNA Strand Displacement Circuits. Lecture Notes in Computer Science, 2013, , 189-203.	1.3	10
20	SMT-Based Analysis of Biological Computation. Lecture Notes in Computer Science, 2013, , 78-92.	1.3	22
21	Runtime Verification and Refutation for Biological Systems. Lecture Notes in Computer Science, 2013, , 384-385.	1.3	0
22	A model of stem cell population dynamics: in silico analysis and in vivo validation. Development (Cambridge), 2012, 139, 47-56.	2.5	18
23	A model of stem cell population dynamics: in silico analysis and in vivo validation. Journal of Cell Science, 2012, 125, e1-e1.	2.0	9
24	Model Checking Using SMT and Theory of Lists. Lecture Notes in Computer Science, 2011, , 282-297.	1.3	7
25	Synthesizing Biological Theories. Lecture Notes in Computer Science, 2011, , 579-584.	1.3	8
26	Biocharts: a visual formalism for complex biological systems. Journal of the Royal Society Interface, 2010, 7, 1015-1024.	3.4	24
27	Accelerating Smart Play-Out. Lecture Notes in Computer Science, 2010, , 477-488.	1.3	2
28	Some Thoughts on the Semantics of Biocharts. Lecture Notes in Computer Science, 2010, , 185-194.	1.3	3
29	Compositional Synthesis of Reactive Systems from Live Sequence Chart Specifications. Lecture Notes in Computer Science, 2009, , 77-91.	1.3	25
30	Supporting UML-based development of embedded systems by formal techniques. Software and Systems Modeling, 2008, 7, 131-155.	2.7	21
31	Modeling and verification of a telecommunication application using live sequence charts and the Play-Engine tool. Software and Systems Modeling, 2008, 7, 157-175.	2.7	16
32	A scenario-based approach to modeling development: A prototype model of C. elegans vulval fate specification. Developmental Biology, 2008, 323, 1-5.	2.0	32
33	Crafting game-models using reactive system design. , 2008, , .		0
34	Synthesizing reactive systems from LSC requirements using the play-engine. , 2007, , .		0
35	âœDonâ€™t Careâ€™ Modeling: A Logical Framework for Developing Predictive System Models. , 2007, , 343-357.		3
36	Formalizing UML Models and OCL Constraints in PVS. Electronic Notes in Theoretical Computer Science, 2005, 115, 39-47.	0.9	63

#	ARTICLE	IF	CITATIONS
37	Synthesis Revisited: Generating Statechart Models from Scenario-Based Requirements. Lecture Notes in Computer Science, 2005, , 309-324.	1.3	80
38	Some Methodological Observations Resulting from Experience Using LSCs and the Play-In/Play-Out Approach. Lecture Notes in Computer Science, 2005, , 26-42.	1.3	13
39	Modeling and Verification of a Telecommunication Application Using Live Sequence Charts and the Play-Engine Tool. Lecture Notes in Computer Science, 2005, , 414-428.	1.3	17
40	The Rhapsody Semantics of Statecharts (or, On the Executable Core of the UML). Lecture Notes in Computer Science, 2004, , 325-354.	1.3	63
41	Deductive Verification of UML Models in TLPVS. Lecture Notes in Computer Science, 2004, , 335-349.	1.3	9
42	Formal Modelling of C. elegans Development. A Scenario-Based Approach. Natural Computing Series, 2004, , 151-173.	2.2	9
43	Smart play-out. , 2003, , .		7
44	SYNTHESIZING STATE-BASED OBJECT SYSTEMS FROM LSC SPECIFICATIONS. International Journal of Foundations of Computer Science, 2002, 13, 5-51.	1.1	130
45	Specifying and executing requirements. , 2002, , .		15
46	Smart Play-out of Behavioral Requirements. Lecture Notes in Computer Science, 2002, , 378-398.	1.3	74
47	Multiple instances and symbolic variables in executable sequence charts. , 2002, , .		45
48	Multiple instances and symbolic variables in executable sequence charts. ACM SIGPLAN Notices, 2002, 37, 83-100.	0.2	6
49	Synthesizing State-Based Object Systems from LSC Specifications. Lecture Notes in Computer Science, 2001, , 1-33.	1.3	27