Dmitry A Zaitsev

List of Publications by Year
in descending order

50 papers	424 citations	758635 12 h-index	839053 18 g-index
50 all docs	50 docs citations	50 times ranked	170 citing authors

#	Article	IF	Citations
1	A generalized neighborhood for cellular automata. Theoretical Computer Science, 2017, 666, 21-35.	0.5	50
2	Switched LAN simulation by colored Petri nets. Mathematics and Computers in Simulation, 2004, 65, 245-249.	2.4	28
3	State equations and equivalent transformations for timed petri nets. Cybernetics and Systems Analysis, 1997, 33, 659-672.	0.4	23
4	Toward the Minimal Universal Petri Net. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 47-58.	5.9	22
5	Sleptsov Nets Run Fast. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 682-693.	5.9	22
6	Universal petri net. Cybernetics and Systems Analysis, 2012, 48, 498-511.	0.4	21
7	Verification of computing grids with special edge conditions by infinite Petri nets. Automatic Control and Computer Sciences, 2013, 47, 403-412.	0.4	20
8	Security of grid structures under disguised traffic attacks. Cluster Computing, 2016, 19, 1183-1200.	3.5	18
9	Decomposition of Petri nets. Cybernetics and Systems Analysis, 2004, 40, 739-746.	0.4	17
10	Infinite Petri Nets: Part 1, Modeling Square Grid Structures. Complex Systems, 2017, 26, 157-195.	0.9	14
11	Synthesis of continuous-valued logic functions defined in tabular form. Cybernetics and Systems Analysis, 1998, 34, 190-195.	0.4	13
12	Solving Linear Diophantine Systems on Parallel Architectures. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1158-1169.	4.0	13
13	Compositional analysis of Petri nets. Cybernetics and Systems Analysis, 2006, 42, 126-136.	0.4	12
14	Paradigm of computations on the Petri nets. Automation and Remote Control, 2014, 75, 1369-1383.	0.4	12
15	Programming in the Sleptsov net language for systems control. Advances in Mechanical Engineering, 2016, 8, 168781401664015.	0.8	12
16	Universal Sleptsov net. International Journal of Computer Mathematics, 2017, 94, 2396-2408.	1.0	11
17	A Parametric Colored Petri Net Model of a Switched Network. International Journal of Communications, Network and System Sciences, 2011, 04, 65-76.	0.4	11
18	Verification of hypercube communication structures via parametric Petri nets1. Cybernetics and Systems Analysis, 2010, 46, 105-114.	0.4	10

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19	Verification of hypertorus communication grids by infinite petri nets and process algebra. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 733-742.	8.5	10
20	Infinite Petri Nets: Part 2, Modeling Triangular, Hexagonal, Hypercube and Hypertorus Structures. Complex Systems, 2017, 26, 341-372.	0.9	10
21	Lessons from co-impacts assessment under the Mitigation Action Plans and Scenarios (MAPS) Programme. Climate Policy, 2017, 17, 1065-1075.	2.6	7
22	Sequential composition of linear systems' clans. Information Sciences, 2016, 363, 292-307.	4.0	6
23	On simulating Turing machines with inhibitor Petri nets. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 147-156.	0.8	6
24	Sleptsov Net Computing. , 2018, , 7731-7743.		6
25	Universality in Infinite Petri Nets. Lecture Notes in Computer Science, 2015, , 180-197.	1.0	5
26	Reenterable Colored Petri Net Models of Networks, Grids, and Clouds: Case Study for Provider Backbone Bridge. , 2018, , .		4
27	Applying Infinite Petri Nets to the Cybersecurity of Intelligent Networks, Grids and Clouds. Applied Sciences (Switzerland), 2021, 11, 11870.	1.3	4
28	Invariants of Timed Petri Nets. Cybernetics and Systems Analysis, 2004, 40, 226-237.	0.4	3
29	Inhibitor Petri net executing an arbitrary given Markov normal algorithm. Automatic Control and Computer Sciences, 2012, 46, 345-355.	0.4	3
30	Spatial Specification of Grid Structures by Petri Nets. Lecture Notes in Networks and Systems, 2021, , 253-263.	0.5	3
31	Spatial specification of hypertorus interconnect by infinite and reenterable coloured Petri nets. International Journal of Parallel, Emergent and Distributed Systems, 2022, 37, 1-21.	0.7	3
32	Verification of ethernet protocols via parametric composition of Petri net. , 2006, 39, 259-264.		3
33	A Small Universal Petri Net. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 128, 190-202.	0.8	3
34	Sleptsov Net Computing. Advances in Computer and Electrical Engineering Book Series, 2019, , 1660-1674.	0.2	3
35	Preface for special issue Petri/Sleptsov net based technology of programming for parallel, emergent and distributed systems. International Journal of Parallel, Emergent and Distributed Systems, 0, , 1-3.	0.7	2
36	PBB Efficiency Evaluation via Colored Petri Net Models. Communications and Network, 2010, 02, 113-124.	0.6	2

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37	Infinite Petri Nets as Models of Grids. Advances in Information Quality and Management, 2014, , 187-204.	0.3	2
38	From strong to exact Petri net computers. International Journal of Parallel, Emergent and Distributed Systems, 2022, 37, 167-186.	0.7	2
39	Switching vs Routing within Multidimensional Torus Interconnect. , 2020, , .		2
40	E6 Addressing Scheme and Network Architecture. Journal of Advanced Computer Science & Technology, 2012, 1, .	1.2	1
41	Clans Aggregation for Verification of Networking Protocols on Parallel Architectures. , 2019, , .		1
42	Modeling Multidimensional Communication Lattices with Moore Neighborhood by Infinite Petri Nets. , 2021, , .		1
43	Composition of Functional Petri Nets. Advances in Civil and Industrial Engineering Book Series, 2013, , 404-464.	0.2	1
44	Solving Linear Systems via Composition of their Clans. Intelligent Information Management, 2009, 01, 73-80.	0.3	1
45	Stack E6 and Its Implementation within Linux Kernel. Journal of Software Engineering and Applications, 2011, 04, 379-387.	0.8	1
46	Analyzing Multidimensional Communication Lattice with Combined Cut-Through and Store-and-Forward Switching Node. Lecture Notes in Networks and Systems, 2021, , 705-715.	0.5	0
47	Fifth Workshop and Tutorial on Practical Use of Coloured Petri Nets and the CPN Tools Aarhus, Denmark, October 8-11, 2004. DAIMI Report Series, 2004, 33, .	0.1	0
48	Implementing Stack E6 via OS Linux Sockets. Journal of Advanced Computer Science & Technology, 2012, 1, .	1.2	0
49	Aggregation of clans to speed-up solving linear systems on parallel architectures. International Journal of Parallel, Emergent and Distributed Systems, 2022, 37, 198-219.	0.7	0
50	Two Kinds of Infinite Petri Nets for Modeling Computing and Communication Systems. , 2021, , .		0