Andrei Karatkevich

List of Publications by Year
in descending order

20 papers	183 citations	1683934 5 h-index	1588896 8 g-index
22 all docs	22 docs citations	22 times ranked	83 citing authors

#	Article	IF	Citations
1	Prototyping of Concurrent Control Systems With Application of Petri Nets and Comparability Graphs. IEEE Transactions on Control Systems Technology, 2018, 26, 575-586.	3.2	34
2	Challenges in Application of Petri Nets in Manufacturing Systems. Electronics (Switzerland), 2021, 10, 2305.	1.8	21
3	Application of comparability graphs in decomposition of Petri nets. , 2014, , .		20
4	Determinism in Cyber-Physical Systems Specified by Interpreted Petri Nets. Sensors, 2020, 20, 5565.	2.1	18
5	A Polynomial-Time Algorithm to Obtain State Machine Cover of Live and Safe Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3592-3597.	5.9	17
6	Decomposition of distributed edge systems based on the Petri nets and linear algebra technique. Journal of Systems Architecture, 2019, 96, 20-31.	2.5	13
7	Deadlock detection in Petri nets: One trace for one deadlock?. , 2014, , .		12
8	On macroplaces in Petri nets. , 2008, , .		10
9	FPGA-based embedded Logic Controllers. , 2014, , .		7
10	Hierarchical Decomposition of Petri Nets for Digital Microsystems Design. , 2006, , .		4
11	Relation between SM-covers and SM-decompositions of Petri nets. AIP Conference Proceedings, 2015, , .	0.3	4
12	A Deadlock Recovery Policy for Flexible Manufacturing Systems with Minimized Traversing within Reachability Graph. , 2022, , .		4
13	Petri Nets in Design of Control Algorithms. Studies in Systems, Decision and Control, 2016, , 1-14.	0.8	3
14	A Method of Analysis of Operational Petri Nets. , 2002, , 449-460.		3
15	C code generation from Petri-net-based logic controller specification. Proceedings of SPIE, 2017, , .	0.8	1
16	Analysis of Petri nets by means of concurrent simulation. , 0, , .		0
17	Detection of Possible Frozen States in Communicating UML State Machines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 198-203.	0.4	0
18	Selection of state machine components for a Petri net based on the computation of an exact transversal. AIP Conference Proceedings, 2018, , .	0.3	0

#	Article	IF	Citations
19	Experimental Comparison of Synthesis Tools Altera Quartus II and Synthagate. International Journal of Electronics and Telecommunications, 2013, 59, .	0.5	0
20	Minimization of SM-Covers of Petri Net Specifications of Control Systems. , 2019, , .		0