Svetlana Chumachenko

List of Publications by Year
in descending order

69 papers	203 citations	2682335 2 h-index	2549979 3 g-index
71 all docs	71 docs citations	71 times ranked	109 citing authors

#	Article	IF	Citations
1	Qubit model for solving the coverage problem. , 2013, , .		21
2	Big Data Driven Cyber Analytic System. , 2015, , .		20
3	FPGA Implementation of VLC Communication Technology. , 2017, , .		16
4	Cloud-Driven Traffic Monitoring and Control Based on Smart Virtual Infrastructure. , 2017, , .		16
5	Green Cyber-Physical Computing as Sustainable Development Model. Studies in Systems, Decision and Control, 2017, , 65-85.	0.8	13
6	Qubit-driven Fault Simulation. , 2019, , .		13
7	Cyber physical system - smart cloud traffic control. , 2014, , .		12
8	Deductive qubit fault simulation. , 2017, , .		9
9	Quantum Models and Method for Analysis and Testing Computing Systems. , 2014, , .		8
10	Cloud traffic monitoring and control. , 2013, , .		7
11	Quantum Deductive Simulation for Logic Functions. , 2018, , .		7
12	Cyber Social Computing. , 2018, , 233-250.		6
13	Cyber-physical social monitoring and governance for the state structures. , 2018, , .		6
14	Qubit description of the functions and structures for computing. , 2016, , .		5
15	Vector-Qubit models for SoC Logic-Structure Testing and Fault Simulation. , 2021, , .		5
16	CyUni service â€" Smart cyber university. , 2015, , .		4
17	Quantum sequencer for the minimal test synthesis of black-box functionality. , 2017, , .		3
18	Cyber Social Computing. , 2018, , .		3

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19	Test Synthesis for Logical X-functions. , 2018, , .		3
20	Big Data Driven Smart Cyber University. , 2016, , .		2
21	Cyber-Physical Technologies: Hype Cycle 2017. , 2018, , 259-272.		2
22	Emerging Culture of Social Computing. , 2019, , .		2
23	Cyber Physical Computing. , 2018, , 1-20.		2
24	Cyber-Social Computing. Studies in Systems, Decision and Control, 2019, , 489-515.	0.8	2
25	Vector Models for Modeling Logic Based on XOR-Relations. , 2022, , .		2
26	Vector logic analysis of associative matrices. , 2010, , .		1
27	Intelligent Road Control and Monitoring. Lecture Notes in Electrical Engineering, 2013, , 327-335.	0.3	1
28	Models for quality analysis of computer structures. , 2013, , .		1
29	Design and optimization of a planar UWB antenna. , 2013, , .		1
30	Cyber Physical System -- iCloud Traffic Control. , 2014, , .		1
31	Cloud-driven traffic control: Feasibility and advantages. , 2015, , .		1
32	Cosmological computing and genome-algorithm of the universe. , 2016, , .		1
33	Transportation Computing: â€œCloud Traffic Controlâ€•. , 2018, , 201-217.		1
34	Quantum Mem-Computing for Design and Test. , 2018, , .		1
35	Architectures of Quantum Memory-driven Computing. , 2018, , .		1
36	Structure and Metrics of Emerging Computing. , 2020, , .		1

#	Article	IF	Citations
37	Novel Design and Simulation of HERIC Transformerless PV Inverter in MATLAB/Simulink. , 2021, , .		1
38	Vector Simulation of Logic Faults based on XOR-Relations. , 2021, , .		1
39	Electromagnetic oscillations in a cavity with a nonlinear dielectric. , 0, , .		0
40	Calculation of a cavity of a laser beam modulator by the functional expansion method of elective values. , 0, , .		0
41	In-phase excitation of infinite phased antenna array. , 0, , .		0
42	SUM IP Core Generator for Solving Task for RKHS Series Summation. , 2007, , .		0
43	SoC software components diagnosis technology. , 2008, , .		0
44	Algebra-Logical Fault Diagnosis Method For SOC Functional Blocks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 42-48.	0.4	0
45	Logic vector analysis of associative tables. , 2010, , .		0
46	Technology for faulty blocks coverage by spares. , 2010, , .		0
47	Cyber space and brain-like computing. , 2010, , .		0
48	Logical analysis of information in tabular form. , 2010, , .		0
49	Spam diagnosis infrastructure for individual cyberspace. , 2011, , .		0
50	Quantum models for description of digital systems. , 2013, , .		0
51	TAB-model for multilevel diagnosis and repair of HDL SoC. , 2014, , .		0
52	iCloud Traffic Control and Monitoring. , 2014, , .		0
53	Structures for information retrieval in big data. , 2015, , .		0
54	Quantum data structures for SoC design. , 2015, , .		0

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55	Cloud service for university E-government. , 2016, , .		0
56	Cloud services of Smart Cyber University. , 2016, , .		0
57	Cloud traffic control: Smart traffic-driven streetlight. , 2017, , .		0
58	Cloud-driven trafile control: Route service metric. , 2017, , .		0
59	Big Data Quantum Computing. , 2018, , 43-69.		0
60	Methods for quantum analysis of digital circuits. , 2018, , .		0
61	17th IEEE East-West Design and Test Symposium. , 2019, , .		0
62	Quantum Deterministic Computing. , 2020, , .		0
63	Big Data Critical Computing Based on the Similarity-Difference Metric. , 2020, , .		0
64	MODEL OF CLOUD SERVICE FOR SEARCHING OPTIMUM PATH. Paradigmata PoznÃ¡nÃ, 2017, 4, 63-83.	0.0	0
65	Cosmological Computing and the Genome of the Universe. , 2018, , 219-232.		0
66	Cyber Social FML â€" Computing I. Goal and Main Trends. , 2021, , .		0
67	Quantum Digitalâ€"Analogue Computing. , 2021, , .		0
68	Cyber Social FML â€" Computing II. Relations & Metrics. , 2021, , .		0
69	Cyber Social FML â€" Computing III. Architectures. , 2021, , .		0