Igor Kovalev

List of Publications by Year
in descending order

76 papers	211 citations	1307594 7 h-index	1372567 10 g-index
80 all docs	80 docs citations	80 times ranked	66 citing authors

#	Article	IF	Citations
1	Methods for identification of objects of development of cross‐platform on‐board software for communication and navigation satellites. , 2022, , .		2
2	MLI. Mouse: a new computer vision-based cursor control software. , 2022, , .		2
3	Обзор V Межународного научного семинара по компьютер...		
4	Обзор III Международной конференции MIST: Aerospace-III-2020. Перео...		
5	Prototyping for communication, navigation and power supply subsystems of on-board equipment of unmanned aerial vehicles. AIP Conference Proceedings, 2021, , .	0.4	0
6	Analysis of logic-time characteristics of subsystem supply functioning hardware elements of unmanned aerial vehicles. IOP Conference Series: Materials Science and Engineering, 2018, 450, 022002.	0.6	1
7	Measurement accuracy of real time parameters in environmental monitoring. IOP Conference Series: Materials Science and Engineering, 2018, 450, 062012.	0.6	5
8	Basic requirements and principles for the compensation system development. IOP Conference Series: Materials Science and Engineering, 2018, 450, 032009.	0.6	0
9	The formalized approach of building a network controller for the information handling automated process control system of the technological control cycle. IOP Conference Series: Materials Science and Engineering, 2018, 450, 042014.	0.6	0
10	Solving navigation-temporal tasks in different coordinate systems. IOP Conference Series: Materials Science and Engineering, 2018, 450, 022029.	0.6	7
11	Application of cascade-connected regulation in the implementation of the software of weight component compensation system. IOP Conference Series: Materials Science and Engineering, 2018, 450, 022003.	0.6	0
12	A description of the interface interaction model of specialized information and software of the distributed automated process control systems. IOP Conference Series: Materials Science and Engineering, 2018, 450, 032001.	0.6	4
13	Dependent failure in multifunctional automatic control systems. IOP Conference Series: Materials Science and Engineering, 2018, 450, 032013.	0.6	0
14	Genetic algorithms of physical modelling with postcrossover survival. IOP Conference Series: Materials Science and Engineering, 2018, 450, 042008.	0.6	0
15	The implementation of measures for reduction an inertia of the interaction components of the heterogeneous environment for the automated process control system. IOP Conference Series: Materials Science and Engineering, 2018, 450, 042015.	0.6	0
16	A new approach to multi-version decision-making to improve the reliability of environmental monitoring parameters. IOP Conference Series: Materials Science and Engineering, 2018, 450, 062001.	0.6	4
17	Analysis of the intellectual interaction of mechanical autonomous systems. IOP Conference Series: Materials Science and Engineering, 2018, 450, 032005.	0.6	0
18	Optimization of electronic document management systems by means of encoding and visualization of stored data in the integrated development environment. MATEC Web of Conferences, 2018, 226, 04021.	0.2	0

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19	IX International Multidisciplinary Scientific and Research Conference â€œModern Issues in Science and Technologyâ€•Workshop â€œAdvanced Technologies in Aerospace, Mechanical and Automation Engineeringâ€• IOP Conference Series: Materials Science and Engineering, 2018, 450, 011001.	0.6	2
20	On the Application of a Modified Ant Algorithm to Optimize the Structure of a Multiversion Software Package. Lecture Notes in Computer Science, 2018, , 91-100.	1.3	4
21	Formation of dislocation loops and voids in electron irradiated zinc selenide single crystals. IOP Conference Series: Materials Science and Engineering, 2017, 255, 012014.	0.6	0
22	Multiversion environment creation for control algorithm execution by autonomous unmanned objects. IOP Conference Series: Materials Science and Engineering, 2017, 173, 012025.	0.6	6
23	Electromagnetic compatibility of ground system of near navigation, based on the use of GNSS and pseudolites. IOP Conference Series: Materials Science and Engineering, 2017, 255, 012010.	0.6	1
24	Intelligent control system of autonomous objects. IOP Conference Series: Materials Science and Engineering, 2017, 173, 012024.	0.6	4
25	Comparative Tests of Decision Making Algorithms for a Multiversion Execution Environment of the Fault Tolerance Software. , 2017, , .		3
26	An adaptive algorithm for interference suppression in phased antenna arrays*. IOP Conference Series: Materials Science and Engineering, 2017, 255, 012009.	0.6	5
27	The regularities of phase formation in $Fe_3Si(111)/Si(111)$ structure at vacuum annealing. Journal of Physics: Conference Series, 2017, 857, 012053.	0.4	2
28	Pseudolite systems for close-range navigation: the problem of synchronization*. IOP Conference Series: Materials Science and Engineering, 2017, 255, 012011.	0.6	6
29	Model implementation of the simulation environment of voting algorithms, as a dynamic system for increasing the reliability of the control complex of autonomous unmanned objects. MATEC Web of Conferences, 2017, 132, 04011.	0.2	9
30	Solar Irradiance Forecasting Based on the Multi-agent Adaptive Fuzzy Neuronet. Lecture Notes in Computer Science, 2017, , 135-140.	1.3	1
31	Model prototype utilization in the analysis of fault tolerant control and data processing systems. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012017.	0.6	0
32	To the question about the states of workability for automatic control systems with complicated structure. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012020.	0.6	6
33	Vector control of wind turbine on the basis of the fuzzy selective neural net*. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012007.	0.6	0
34	Building automation system of payment platform weight component for large spacecraft reflector. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012016.	0.6	0
35	On the question of economic efficiency and how to assess it. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012026.	0.6	3
36	Synthesis of an algorithm for interference immunity. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012019.	0.6	5

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37	Model and method for optimizing heterogeneous systems. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012043.	0.6	3
38	Processing information system for highly specialized information in corporate networks. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012032.	0.6	1
39	Evaluation of availability of cluster distributed disaster tolerant systems for control and information processing based on a cluster quorum. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012041.	0.6	1
40	The National Forest Heritage of the Altai-Sayan Ecoregion. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012044.	0.6	0
41	Relation optimization of the starting and main stages of rockets with short-running engine on the external oxidizer. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012040.	0.6	0
42	Control of technical object on the basis of the multi-agent system with neuroevolution and student-teacher of-line learning. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012001.	0.6	0
43	Specialized software for the adaptive nulling unit of a hybrid reflector antenna. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012018.	0.6	4
44	Measurements of high impedance two-terminal device with SMU NI PXIe-4139. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012027.	0.6	1
45	Plasma chemical silicon etching process*. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012028.	0.6	1
46	Formation and control system by the specialized data in information networks. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012018.	0.6	0
47	Development of methods for equivalent transformation of GERT networks for application in multi-version software. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012015.	0.6	6
48	Simulation modeling of functional adaptive interference nulling for multibeam hybrid reflector antenna systems. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012017.	0.6	5
49	Methodological approach for identification the function of the object for automatic regulation system of the continuous technological processes. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012033.	0.6	2
50	Model of interaction in Smart Grid on the basis of multi-agent system. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012002.	0.6	1
51	Intelligent control of PV system on the basis of the fuzzy recurrent neuronet*. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012006.	0.6	0
52	The Energy Saving Technology of a Photovoltaic System's Control on the Basis of the Fuzzy Selective Neuronet. Lecture Notes in Computer Science, 2016, , 382-388.	1.3	1
53	The structural defects formation in ZnS under electron irradiation with energy 400 KeV. IOP Conference Series: Materials Science and Engineering, 2016, 122, 012023.	0.6	1
54	MPPT of a Partially Shaded Photovoltaic Module by Ant Lion Optimizer. Lecture Notes in Computer Science, 2016, , 451-457.	1.3	0

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55	Applying filtering for determining the angular orientation of spinning objects during interference. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012020.	0.6	11
56	Electron-hole pairs generation rate estimation irradiated by isotope Nickel-63 in silicone using GEANT4. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012024.	0.6	2
57	The minimization of inter-module interface for the achievement of reliability of multi-version software. IOP Conference Series: Materials Science and Engineering, 2015, 70, 012006.	0.6	2
58	The mathematical statement for the solving of the problem of N-version software system design. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012012.	0.6	0
59	The efficiency analysis of the automated plants. IOP Conference Series: Materials Science and Engineering, 2015, 70, 012007.	0.6	8
60	The control of developing a structure of a catastrophe-resistant system of information processing and control. IOP Conference Series: Materials Science and Engineering, 2015, 70, 012008.	0.6	4
61	Energy-saving technology of vector controlled induction motor based on the adaptive neuro-controller. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012008.	0.6	1
62	Aerospace university activity for the development of information and telecommunication and space technologies using the mechanisms of technological platforms. IOP Conference Series: Materials Science and Engineering, 2015, 70, 012010.	0.6	3
63	Intelligent control of non-linear dynamical system based on the adaptive neurocontroller. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012009.	0.6	3
64	Scientific and educational center "space systems and technology". IOP Conference Series: Materials Science and Engineering, 2015, 94, 012014.	0.6	0
65	The biometric-based module of smart grid system. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012007.	0.6	1
66	The pseudo-Boolean optimization approach to form the N-version software structure. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012013.	0.6	0
67	Dangerous failures in multifunctional systems. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012019.	0.6	4
68	The concept of creation of information system for environmental monitoring based on modern GIS-technologies and earth remote sensing data. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012023.	0.6	10
69	Evolutionary feature selection for emotion recognition in multilingual speech analysis. , 2015, , .		4
70	Model of the reliability analysis of the distributed computer systems with architecture "client-server". IOP Conference Series: Materials Science and Engineering, 2015, 70, 012009.	0.6	8
71	N-version design of fault-tolerant control software for communications satellite system. , 2015, , .		10
72	The practical approach to the reliability analysis of the software architecture of a complex company control system. IOP Conference Series: Materials Science and Engineering, 2015, 94, 012011.	0.6	0

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73	Deriving the optimal structure of N-version software under resource requirements and cost/timing constraints. , 0, , .		4
74	Features of the Process of Obtaining Steel 08H14N5M2DL in the Open Induction Furnace IST-0.16. Materials Science Forum, 0, 1031, 97-102.	0.3	2
75	Minimization of Internal Shrinkage Defects in Cast Parts Using 5VA Powder Solder Application. Materials Science Forum, 0, 1031, 184-189.	0.3	2
76	Social Importance Of Scientific And Educational Projects In The Modern Youth Environment. , 0, , .		0