

# Sergey Sokolov

## List of Publications by Year in descending order

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74  
papers

158  
citations

1478505

6  
h-index

1372567

10  
g-index

75  
all docs

75  
docs citations

75  
times ranked

44  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of Scots Pine Seedlings from Seeds Graded by Colour. Forests, 2019, 10, 1064.	2.1	27
2	How to Increase the Analog-to-Digital Converter Speed in Optoelectronic Systems of the Seed Quality Rapid Analyzer. Inventions, 2019, 4, 61.	2.5	14
3	Determining the Initial Orientation for Navigation and Measurement Systems of Mobile Apparatus in Reforestation. Inventions, 2019, 4, 56.	2.5	10
4	Development tendency of sowing air operating technology by unmanned aerial vehicles in artificial reforestation. Forestry Engineering Journal, 2018, 7, 190-205.	0.4	8
5	NEW OPTOELECTRONIC SYSTEMS FOR EXPRESS ANALYSIS OF SEEDS IN FORESTRY PRODUCTION. Forestry Engineering Journal, 2019, 9, 5-13.	0.4	7
6	Analytical models of spatial trajectories for solving navigation problems. Prikladnaya Matematika i Mekhanika, 2015, 79, 17-22.	0.4	6
7	Analytic Synthesis of a Kalman Adaptive Filter on the Basis of Irregular Precise Measurements. Measurement Techniques, 2018, 61, 232-237.	0.6	6
8	VIS-NIR wave spectrometric features of acorns (Quercus robur L.) for machine grading. IOP Conference Series: Earth and Environmental Science, 2019, 392, 012009.	0.3	6
9	Analytical Solution for a Problem on Approximation of Functional Dependences for Parameters of a Geodesic Line. Mechanics of Solids, 2019, 54, 1076-1082.	0.7	5
10	Adaptive Stochastic Filtration Based on the Estimation of the Covariance Matrix of Measurement Noises Using Irregular Accurate Observations. Inventions, 2021, 6, 10.	2.5	5
11	Using nonlinear and waveguide optics to synthesize digital computers. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 1999, 66, 118.	0.4	4
12	Optical fuzzy logic systems in problems of adaptive simulation of weakly formalized processes. Journal of Computer and Systems Sciences International, 2011, 50, 462-471.	0.6	4
13	Solving the Autonomous Initial Navigation Task for Strapdown Inertial Navigation System on the Perturbed Basis Using Rodriguez's Hamilton Parameters. Russian Aeronautics, 2019, 62, 42-51.	0.2	4
14	Nonlinear Dynamic Estimation of the Orientation Angles of a Moving Object from Distributed Satellite Measurements. Measurement Techniques, 2019, 62, 233-241.	0.6	4
15	The Current Spectrum Formation of a Non-Periodic Signal: A Differential Approach. Inventions, 2020, 5, 15.	2.5	4
16	Adaptive Approach for Anomaly Detection in Temporal Data Based on Immune Double-Plasticity Principle. Advances in Intelligent Systems and Computing, 2018, , 234-243.	0.6	4
17	Fuzzy logical control based on optical information technologies. Automatic Control and Computer Sciences, 2014, 48, 123-128.	0.8	3
18	Solution to the problem of the close integration of satellite and inertial platform navigation systems. Cosmic Research, 2015, 53, 458-468.	0.6	3

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19	Solution of the problem of identifying structures of discrete stochastic objects based on the minimum posterior error criterion of distribution densities. Automatic Control and Computer Sciences, 2016, 50, 28-36.	0.8	3
20	Algorithmic support for integrated navigation systems. Journal of Computer and Systems Sciences International, 2008, 47, 308-320.	0.6	2
21	A solution of the problem of nonlinear parametric identification based on generalized probability criteria. Journal of Computer and Systems Sciences International, 2008, 47, 703-708.	0.6	2
22	Intelligent processing of temporal data based on hybrid fuzzy-stochastic models. Automatic Control and Computer Sciences, 2015, 49, 1-10.	0.8	2
23	Analytical Solution of the Navigation Problem on the Orthodromic Trajectory in the Greenwich Coordinate System. Mechanics of Solids, 2018, 53, 133-134.	0.7	2
24	Stochastic Estimation of Ephemerides of Navigation Satellites in Perturbed Orbits. Radioelectronics and Communications Systems, 2018, 61, 350-360.	0.5	2
25	Nonlinear dynamic evaluation of orientation angles of a moving object using diverse satellite measurements. Izmeritel'naya Tekhnika, 2019, , 30-36.	0.2	2
26	Use of Irregular Exact Measurements in a Problem of an Adaptive Filtration. Advances in Intelligent Systems and Computing, 2018, , 379-387.	0.6	2
27	Optimum estimation of discretely continuous Markov processes. Radiophysics and Quantum Electronics, 1991, 34, 634-638.	0.5	1
28	Russia's 1993 fire statistics. Fire Technology, 1994, 30, 458-467.	3.0	1
29	Solution of the problem of synthesizing a stochastic optimal control using non-linear probabilistic criteria. Prikladnaya Matematika I Mekhanika, 1996, 60, 561-566.	0.4	1
30	Title is missing!. Cosmic Research, 2001, 39, 498-503.	0.6	1
31	Nonlinear suboptimal filtration of pseudorandom sequences. Automatic Control and Computer Sciences, 2007, 41, 126-131.	0.8	1
32	Nonlinear parametric identification based on the criterion of minimum probability of estimation error. Automatic Control and Computer Sciences, 2007, 41, 299-304.	0.8	1
33	Stochastic filtering of satellite navigation measurements using invariant model of the target. Radioelectronics and Communications Systems, 2013, 56, 95-99.	0.5	1
34	Solution to the problem of joint evaluation of the nonstationary model of GSP drift and the state vector of a navigation system. Cosmic Research, 2013, 51, 225-234.	0.6	1
35	Nonlinear filtering of vehicle motion parameters in an integrated navigation system using electronic map data. Russian Aeronautics, 2015, 58, 338-344.	0.2	1
36	The Use of Inter-Satellite Measurement for Precise Estimation of the Navigation Object Parameters. Measurement Techniques, 2017, 60, 24-29.	0.6	1

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37	Improving the Positional Accuracy of the Airborne Vehicle during Its Motion along the Predetermined Path. Russian Aeronautics, 2018, 61, 212-219.	0.2	1
38	Application of Acyclic Precise Measurements to the Solution of the Problem of Adaptive Nonlinear Kalman's Filtration. , 2018, , .		1
39	Stochastic evaluation of orientation parameters for an antenna complex using strapdown inertial system measurements. Izmeritel'naya Tekhnika, 2020, , 11-19.	0.2	1
40	Analytical Approximation of Functional Dependences of the Geodesic Line Parameters. Mechanics of Solids, 2020, 55, 1210-1215.	0.7	1
41	Improving the quality of automated VISâ€œgrading of Scots pine seeds using fuzzy logic algorithm. IOP Conference Series: Earth and Environmental Science, 2021, 875, 012032.	0.3	1
42	Nonlinear Stochastic Evaluation of the Orientation Parameters of a Strapdown Inertial Navigation System of a Space Vehicle During Prelaunch Preparation. Journal of Computer and Systems Sciences International, 2021, 60, 1005-1015.	0.6	1
43	Difference-Range Method for Determining the Coordinates of a Radio Beacon Using Unmanned Aerial Vehicles. Optoelectronics, Instrumentation and Data Processing, 2022, 58, 74-84.	0.6	1
44	Recurrence method for solving the Fokker-Planck-Kolmogorov equation. Radiophysics and Quantum Electronics, 1991, 34, 483-489.	0.5	0
45	On the synthesis problem for optimal control of a nonlinear stochastic observation process. Radiophysics and Quantum Electronics, 1995, 38, 792-799.	0.5	0
46	Synthesis of the optimal control of dynamical structures. Prikladnaya Matematika I Mekhanika, 1999, 63, 223-227.	0.4	0
47	Solution of the problem of a posteriori synthesis of optimum control for nonlinear stochastic structures. Radiophysics and Quantum Electronics, 1999, 42, 798-804.	0.5	0
48	Design of a Navigation Control by Information Criteria. Automation and Remote Control, 2001, 62, 886-895.	0.8	0
49	Title is missing!. Cosmic Research, 2001, 39, 55-60.	0.6	0
50	Title is missing!. Radiophysics and Quantum Electronics, 2002, 45, 246-252.	0.5	0
51	Optical reversible counter. Radioelectronics and Communications Systems, 2007, 50, 462-464.	0.5	0
52	Identification algorithm of the right part of a dynamic system described with non-linear vector stochastic equation. Radioelectronics and Communications Systems, 2007, 50, 473-479.	0.5	0
53	Solution of problem of identification of time shift of pseudorandom sequences on the basis of nonlinear probabilistic criteria. Automatic Control and Computer Sciences, 2008, 42, 57-63.	0.8	0
54	An optical analog-to-digital converter for bitwise coding. Radioelectronics and Communications Systems, 2008, 51, 417-420.	0.5	0

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55	Structural identification of pseudorandom sequences based on using the nonlinear Kalman filter. Radioelectronics and Communications Systems, 2008, 51, 534-539.	0.5	0
56	Optical analog-to-digital nanoconverter. Radioelectronics and Communications Systems, 2009, 52, 265-268.	0.5	0
57	Nonlinear parametric identification of stochastic discrete plants based on generalized probabilistic criteria. Journal of Computer and Systems Sciences International, 2011, 50, 884-892.	0.6	0
58	Optical analogue computational devices based on telescopic nanotubes. Radioelectronics and Communications Systems, 2012, 55, 172-174.	0.5	0
59	Solving the problem of structural stochastic identification of nonlinear discrete dynamic multistructural objects. Automatic Control and Computer Sciences, 2013, 47, 310-317.	0.8	0
60	Nonlinear estimation of the navigation parameters of an object based on the integration of satellite and tracker measurements. Automatic Control and Computer Sciences, 2014, 48, 56-64.	0.8	0
61	Stochastic estimation of dynamically changing object orientation parameters using satellite measurements. Radioelectronics and Communications Systems, 2015, 58, 166-173.	0.5	0
62	Intelligent Methods for State Estimation and Parameter Identification in Fuzzy Dynamical Systems. Advances in Intelligent Systems and Computing, 2016, , 291-300.	0.6	0
63	Parametric identification for perturbed paths of navigation satellites based on inter-satellite measurements. Automatic Control and Computer Sciences, 2017, 51, 270-278.	0.8	0
64	Stochastic Estimation of Orientation Parameters of an Antenna Complex based on Strapdown Inertial System Measurements. Measurement Techniques, 2020, 63, 87-95.	0.6	0
65	A Posteriori Locally Optimal Control of Stochastic Structures. Journal of Automation and Information Sciences, 2000, 32, 16-20.	0.7	0
66	On Solving the Problem of a Differential Game for Distributed Dynamic Systems. Journal of Automation and Information Sciences, 2004, 36, 59-64.	0.7	0
67	Nonlinear Parametric Identification Based on the Generalized Probabilistic Criteria. Journal of Automation and Information Sciences, 2008, 40, 52-60.	0.7	0
68	Structural Recognition of the Nonlinear Discrete Dynamic Objects Based on the Generalized Probabilistic Criteria. Journal of Automation and Information Sciences, 2014, 46, 30-41.	0.7	0
69	Optimal Control Using Nonlinear Probabilistic Tests. Journal of Automation and Information Sciences, 1998, 30, 42-50.	0.7	0
70	Synthesis of Optimal Control of Stochastic Observations Based on a Priori Information Model of Measurements. Journal of Automation and Information Sciences, 1999, 31, 49-59.	0.7	0
71	Synthesis of Locally Optimal Control by Using Generalized Probability Criterions. Journal of Automation and Information Sciences, 1999, 31, 43-47.	0.7	0
72	A Posteriori Synthesis of Optimal Control of Nonlinear Stochastic Structures. Journal of Automation and Information Sciences, 1999, 31, 53-59.	0.7	0

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73	Analytical Synthesis of the Probabilistic Characteristics of One Class of Non-Markovian Processes. Journal of Automation and Information Sciences, 1999, 31, 49-56.	0.7	0
74	Adaptation of the Nonlinear Stochastic Filter on the Basis of Irregular Exact Measurements. Advances in Intelligent Systems and Computing, 2019, , 85-91.	0.6	0