

Boris Sokolov

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

6,456
citations

156536

32
h-index

81351

76
g-index

125
all docs

125
docs citations

125
times ranked

3449
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated detection of disruption scenarios, the ripple effect dispersal and recovery paths in supply chains. <i>Annals of Operations Research</i> , 2022, 319, 609-631.	2.6	63
2	Cyber-Physical System Adaptation in One Control Problem for Supply Chain. <i>Lecture Notes in Control and Information Sciences - Proceedings</i> , 2022, , 591-597.	0.1	0
3	Cloud supply chain: Integrating Industry 4.0 and digital platforms in the "Supply Chain-as-a-Service". <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2022, 160, 102676.	3.7	109
4	A control approach to scheduling flexibly configurable jobs with dynamic structural-logical constraints. <i>IIE Transactions</i> , 2021, 53, 21-38.	1.6	52
5	An Empirical Examination of the Consistency Ratio in the Analytic Hierarchy Process (AHP). <i>IFIP Advances in Information and Communication Technology</i> , 2021, , 477-485.	0.5	2
6	Blockchain-oriented dynamic modelling of smart contract design and execution in the supply chain. <i>International Journal of Production Research</i> , 2020, 58, 2184-2199.	4.9	315
7	Combined approach to the complex objects control and stability analysis of management decisions. <i>International Journal of Risk Assessment and Management</i> , 2020, 23, 106.	0.2	4
8	Reconfigurable supply chain: the X-network. <i>International Journal of Production Research</i> , 2020, 58, 4138-4163.	4.9	261
9	Introduction to Scheduling in Industry 4.0 and Cloud Manufacturing Systems. <i>Profiles in Operations Research</i> , 2020, , 1-9.	0.3	8
10	Proactive Scheduling and Reactive Real-Time Control in Industry 4.0. <i>Profiles in Operations Research</i> , 2020, , 11-37.	0.3	9
11	Methodology of Complex Objects Structural Dynamics Proactive Management and Control Theory and Its Application. <i>Lecture Notes in Networks and Systems</i> , 2020, , 169-177.	0.5	1
12	Control of inventory dynamics: A survey of special cases for products with low demand. <i>Annual Reviews in Control</i> , 2020, 49, 306-320.	4.4	7
13	Problems of Socio-Cyber-Physical Systems Development and Implementation: State-of-Art and Directs of Research. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 596-606.	0.5	0
14	Integrated Scheduling of Information Services and Logistics Flows in the Omnichannel System. <i>Profiles in Operations Research</i> , 2020, , 125-140.	0.3	0
15	The impact of digital technology and Industry 4.0 on the ripple effect and supply chain risk analytics. <i>International Journal of Production Research</i> , 2019, 57, 829-846.	4.9	965
16	A Model-Oriented System for Operational Forecasting of River Floods. <i>Herald of the Russian Academy of Sciences</i> , 2019, 89, 405-417.	0.2	5
17	Ripple Effect in the Supply Chain: Definitions, Frameworks and Future Research Perspectives. <i>Profiles in Operations Research</i> , 2019, , 1-33.	0.3	18
18	Digital Supply Chain Twins: Managing the Ripple Effect, Resilience, and Disruption Risks by Data-Driven Optimization, Simulation, and Visibility. <i>Profiles in Operations Research</i> , 2019, , 309-332.	0.3	81

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19	Performance Impact Analysis of Disruption Propagations in the Supply Chain. Profiles in Operations Research, 2019, , 163-180.	0.3	0
20	Simultaneous structuralâ€œoperational control of supply chain dynamics and resilience. Annals of Operations Research, 2019, 283, 1191-1210.	2.6	49
21	A Model of an Integrated Analytics Decision Support System for Situational Proactive Control of Recovery Processes in Service-Modularized Supply Chain. Profiles in Operations Research, 2019, , 129-144.	0.3	0
22	Intellectualization of control: cyber-physical supply chain risk analytics. IFAC-PapersOnLine, 2019, 52, 355-360.	0.5	6
23	Methodology and integrated modeling technologies for synthesis of cyber-physical production systems modernization programs and plans. IFAC-PapersOnLine, 2019, 52, 642-647.	0.5	3
24	Modification of Multiple-model Description and Planning and Update Control Algorithms of Supply Chain. IFAC-PapersOnLine, 2019, 52, 1972-1977.	0.5	1
25	Comparison of ERP Systems with Blockchain Platform. Advances in Intelligent Systems and Computing, 2019, , 240-247.	0.5	2
26	Scheduling in production, supply chain and Industry 4.0 systems by optimal control: fundamentals, state-of-the-art and applications. International Journal of Production Research, 2019, 57, 411-432.	4.9	206
27	Segmentation Algorithm for the Evolutionary Biological Objects Images on a Complex Background. Advances in Intelligent Systems and Computing, 2019, , 151-171.	0.5	0
28	Model-Algorithmic Support for Abilities Calculating of Control System Based on Projection Operators. Advances in Intelligent Systems and Computing, 2019, , 342-348.	0.5	1
29	Hybrid fuzzy-probabilistic approach to supply chain resilience assessment. IEEE Transactions on Engineering Management, 2018, 65, 303-315.	2.4	100
30	Ripple effect in the supply chain: an analysis and recent literature. International Journal of Production Research, 2018, 56, 414-430.	4.9	495
31	Scheduling of recovery actions in the supply chain with resilience analysis considerations. International Journal of Production Research, 2018, 56, 6473-6490.	4.9	86
32	Multiple-model description and generalised algorithm of ship-building wharf scheduling. International Journal of Service and Computing Oriented Manufacturing, 2018, 3, 238.	0.2	0
33	CONTROL THEORY APPLICATIONS TO OPERATIONS SYSTEMS, SUPPLY CHAIN MANAGEMENT AND INDUSTRY 4.0 NETWORKS. IFAC-PapersOnLine, 2018, 51, 1536-1541.	0.5	21
34	Dynamic analysis of space robot remote control system. AIP Conference Proceedings, 2018, , .	0.3	17
35	A survey on control theory applications to operational systems, supply chain management, and Industry 4.0. Annual Reviews in Control, 2018, 46, 134-147.	4.4	151
36	Optimal Control Algorithms and Their Analysis for Short-Term Scheduling in Manufacturing Systems. Algorithms, 2018, 11, 57.	1.2	20

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37	Simulation Vs. Optimization Approaches to Ripple Effect Modelling in the Supply Chain. Lecture Notes in Logistics, 2018, , 34-39.	0.6	5
38	Dynamic Models of Self-organization Through Mass Behavior in Society. Advances in Intelligent Systems and Computing, 2018, , 114-123.	0.5	2
39	Minimization of disruption-related return flows in the supply chain. International Journal of Production Economics, 2017, 183, 503-513.	5.1	79
40	Literature review on disruption recovery in the supply chain. International Journal of Production Research, 2017, 55, 6158-6174.	4.9	444
41	Optimal control representation of the mathematical programming model for supply chain dynamic reconfiguration. IFAC-PapersOnLine, 2017, 50, 4994-4999.	0.5	8
42	A Dynamic Approach to Multi-stage Job Shop Scheduling in an Industry 4.0-Based Flexible Assembly System. IFIP Advances in Information and Communication Technology, 2017, , 475-482.	0.5	10
43	Models and algorithms of operational planning and control of dynamical objects with application of the Pontryagin's Maximum principle. , 2017, , .		0
44	System of indicators of the quality of human-machine interaction in three-dimensional visualization in decision support systems. , 2017, , .		0
45	Application of decision-making support technology for management of space vehicle life cycle. , 2017, , .		0
46	The methodology of situational and competence centers development in order to increase the national economic and social stability. , 2017, , .		1
47	Mathematical model and algorithm of operation scheduling for monitoring situation in local waters. MATEC Web of Conferences, 2017, 113, 02012.	0.1	0
48	Creation of image models for evolving objects on dynamically changing scenes. Journal of Applied Engineering Science, 2017, 15, 540-545.	0.4	1
49	Methodology and Structure Adaptation Algorithm for Complex Technical Objects Reconfiguration Models. Advances in Intelligent Systems and Computing, 2017, , 319-328.	0.5	2
50	Robust classification of texture land forest inventory based on model of minimally sufficient features. Journal of Applied Engineering Science, 2017, 15, 236-241.	0.4	1
51	Control Theory Application to Complex Technical Objects Scheduling Problem Solving. Advances in Intelligent Systems and Computing, 2017, , 172-179.	0.5	0
52	Robot master slave and supervisory control with large time delays of control signals and feedback. Applied Mathematical Sciences, 2016, 10, 1783-1796.	0.0	24
53	Models and methods for multicriteria situational flexible reassignment of control functions in man-machine systems. , 2016, , .		3
54	Conceptual and Formal Modelling of Monitoring Systems Structure-Dynamics Control. Advances in Intelligent Systems and Computing, 2016, , 391-401.	0.5	2

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55	RFID Technology for Adaptation of Complex Systems Scheduling and Execution Control Models. Advances in Intelligent Systems and Computing, 2016, , 433-442.	0.5	1
56	Dynamic recovery policies for time-critical supply chains under conditions of ripple effect. International Journal of Production Research, 2016, 54, 7245-7258.	4.9	73
57	Development of intelligent information systems for operational river-flood forecasting. Herald of the Russian Academy of Sciences, 2016, 86, 24-33.	0.2	10
58	Disruptions in supply chains and recovery policies: state-of-the art review. IFAC-PapersOnLine, 2016, 49, 1436-1441.	0.5	32
59	Schedule coordination in cyber-physical supply networks Industry 4.0. IFAC-PapersOnLine, 2016, 49, 839-844.	0.5	39
60	Exact and heuristic methods for integrated supply chain design reliability analysis. International Journal of Integrated Supply Management, 2016, 10, 206.	0.2	10
61	Flexible flow shop scheduling for continuous production. International Journal of Service and Computing Oriented Manufacturing, 2016, 2, 189.	0.2	1
62	A dynamic model and an algorithm for short-term supply chain scheduling in the smart factory industry 4.0. International Journal of Production Research, 2016, 54, 386-402.	4.9	417
63	Schedule robustness analysis with the help of attainable sets in continuous flow problem under capacity disruptions. International Journal of Production Research, 2016, 54, 3397-3413.	4.9	31
64	Disruption-driven supply chain (re)-planning and performance impact assessment with consideration of pro-active and recovery policies. Transportation Research, Part E: Logistics and Transportation Review, 2016, 90, 7-24.	3.7	123
65	Robust dynamic schedule coordination control in the supply chain. Computers and Industrial Engineering, 2016, 94, 18-31.	3.4	35
66	Integrated Planning and Scheduling with Dynamic Analysis and Control of Service Level and Costs. Operations Research/ Computer Science Interfaces Series, 2016, , 263-283.	0.3	2
67	Structural quantification of the ripple effect in the supply chain. International Journal of Production Research, 2016, 54, 152-169.	4.9	114
68	Methodological Basis of Socio-Cyber-Physical Systems Structure-Dynamics Control and Management. Communications in Computer and Information Science, 2016, , 610-617.	0.4	9
69	Models And Algorithms For Abilities Evaluation Of Active Moving Objects Control System. , 2016, , .		1
70	Integrated scheduling of material flows and information services in industry 4.0 supply networks. IFAC-PapersOnLine, 2015, 48, 1533-1538.	0.5	30
71	An Innovative Framework for Integrated Space-Ground Monitoring. , 2015, , .		0
72	Ripple Effect in the Time-Critical Food Supply Chains and Recovery Policies. IFAC-PapersOnLine, 2015, 48, 1682-1687.	0.5	9

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73	Analysis of position optimization method applicability in supply chain management problem. , 2015, , .		14
74	Integration of aggregate distribution and dynamic transportation planning in a supply chain with capacity disruptions and the ripple effect consideration. International Journal of Production Research, 2015, 53, 6963-6979.	4.9	58
75	Supply Chain Design With Disruption Considerations: Review of Research Streams on the Ripple Effect in the Supply Chain. IFAC-PapersOnLine, 2015, 48, 1700-1707.	0.5	26
76	Intelligent Integrated Decision Support Systems for Territory Management. Advances in Intelligent Systems and Computing, 2015, , 321-331.	0.5	3
77	Coordination of the supply chain schedules with re-scheduling considerations. IFAC-PapersOnLine, 2015, 48, 1509-1514.	0.5	3
78	Advanced river flood monitoring, modelling and forecasting. Journal of Computational Science, 2015, 10, 77-85.	1.5	70
79	Control theory application to spacecraft scheduling problem. , 2014, , .		2
80	Analysis of dynamic scheduling robustness with the help of attainable sets. , 2014, , .		1
81	Integrated dynamic scheduling of material flows and distributed information services in collaborative cyber-physical supply networks. International Journal of Systems Science: Operations and Logistics, 2014, 1, 18-26.	2.0	17
82	Multi-stage supply chain scheduling with non-preemptive continuous operations and execution control. International Journal of Production Research, 2014, 52, 4059-4077.	4.9	21
83	Optimal distribution (re)planning in a centralized multi-stage supply network under conditions of the ripple effect and structure dynamics. European Journal of Operational Research, 2014, 237, 758-770.	3.5	144
84	The Ripple effect in supply chains: trade-off "efficiency-flexibility-resilience"™ in disruption management. International Journal of Production Research, 2014, 52, 2154-2172.	4.9	451
85	Multiple models of information fusion processes: Quality definition and estimation. Journal of Computational Science, 2014, 5, 380-386.	1.5	12
86	Complex Objects Remote Sensing Forest Monitoring and Modeling. Advances in Intelligent Systems and Computing, 2014, , 445-453.	0.5	7
87	Dual problem formulation and its application to optimal redesign of an integrated production" distribution network with structure dynamics and ripple effect considerations. International Journal of Production Research, 2013, 51, 5386-5403.	4.9	62
88	Control and system-theoretic identification of the supply chain dynamics domain for planning, analysis and adaptation of performance under uncertainty. European Journal of Operational Research, 2013, 224, 313-323.	3.5	189
89	Task re-allocation in temporary production networks. International Journal of Integrated Supply Management, 2013, 8, 107.	0.2	1
90	Complex Objects Remote Sensing Monitoring and Modeling: Methodology, Technology and Practice. , 2013, , .		3

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91	Dynamic co-ordinated scheduling in the supply chain under a process modernisation. International Journal of Production Research, 2013, 51, 2680-2697.	4.9	28
92	APPLICATION OF CONTROL THEORETIC TOOLS TO SUPPLY CHAIN DISRUPTION MANAGEMENT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1926-1931.	0.4	4
93	Multi-disciplinary analysis of interfaces "Supply Chain Event Management - RFID - control theory". International Journal of Integrated Supply Management, 2013, 8, 52.	0.2	10
94	STRUCTURE DYNAMICS CONTROL-BASED INTEGRATION OF AGGREGATE DISTRIBUTION AND DYNAMIC TRANSPORTATION PLANNING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1920-1925.	0.4	0
95	Adaptation-Based Supply Chain Resilience. Lecture Notes in Logistics, 2013, , 267-287.	0.6	4
96	Structure dynamics control approach to supply chain planning and adaptation. International Journal of Production Research, 2012, 50, 6133-6149.	4.9	43
97	Intelligent technology for space and ground based monitoring of natural objects in cross-boder Eu-Russia territory. , 2012, , .		4
98	ATTAINABLE SETS AND THEIR POSSIBLE APPLICATIONS TO SUPPLY CHAIN ANALYSIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 578-583.	0.4	0
99	The interâ€disciplinary modelling of supply chains in the context of collaborative multiâ€structural cyberâ€physical networks. Journal of Manufacturing Technology Management, 2012, 23, 976-997.	3.3	38
100	DEVELOPING AN ADAPTIVE FRAMEWORK FOR SUSTAINABLE SUPPLY NETWORKS. , 2012, , 109-131.		0
101	Dynamic supply chain scheduling. Journal of Scheduling, 2012, 15, 201-216.	1.3	85
102	Applicability of optimal control theory to adaptive supply chain planning and scheduling. Annual Reviews in Control, 2012, 36, 73-84.	4.4	103
103	Structure Dynamics Control-Based Service Scheduling in Collaborative Cyber-Physical Supply Networks. International Federation for Information Processing, 2012, , 280-288.	0.4	2
104	ON APPLICABILITY OF OPTIMAL CONTROL THEORY TO ADAPTIVE SUPPLY CHAIN PLANNING AND SCHEDULING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 423-434.	0.4	13
105	RFID-based Adaptive Feedbacks between Supply Chain Scheduling and Execution Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 435-440.	0.4	1
106	Integrated supply chain planning based on a combined application of operations research and optimal control. Central European Journal of Operations Research, 2011, 19, 299-317.	1.1	24
107	A multi-structural framework for adaptive supply chain planning and operations control with structure dynamics considerations. European Journal of Operational Research, 2010, 200, 409-420.	3.5	219
108	Adaptive Supply Chain Management. , 2010, , .		98

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109	Situational Modelling for Structural Dynamics Control of Industry-Business Processes and Supply Chains. <i>Studies in Computational Intelligence</i> , 2010, , 279-308.	0.7	10
110	Disaster Risk Assessment Based on Heterogeneous Geospatial Information. <i>Journal of Automation and Information Sciences</i> , 2010, 42, 32-45.	0.7	35
111	Integrated Adaptive Design and Planning of Supply Networks. <i>Lecture Notes in Business Information Processing</i> , 2010, , 152-163.	0.8	4
112	New concept of RFID reader networks structure: hardware and software architecture. , 2009, , .		4
113	INTEGRATED MODELLING ENVIRONMENT FOR DECISION MAKING SUPPORT IN SUPPLY CHAIN MANAGEMENT: CONCEPTUAL APPROACH. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 594-599.	0.4	2
114	ISSUES IN SUPPLY CHAIN STABILITY ESTIMATION IN FLEXIBLE SUPPLY NETWORKS AND POSSIBLE METHODS AND TOOLS FOR THEIR DECISION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 570-575.	0.4	0
115	Integrated situational modelling of industry-business processes for every stage of their life cycle. , 2008, , .		3
116	Integrated modelling of agile enterprise networks. <i>International Journal of Agile Systems and Management</i> , 2007, 2, 23.	0.6	20
117	A Conceptual Framework for Modeling Complex Adaptation of Collaborative Networks. , 2006, , 15-22.		10
118	Stability Analysis in the Framework of Decision Making Under Risk and Uncertainty. , 2006, , 211-218.		8
119	Quantitative Models of Collaborative Networks. <i>International Federation for Information Processing</i> , 2005, , 387-394.	0.4	11
120	Scheduling in Production, Supply Chain and Industry 4.0 Systems by Optimal Control: Fundamentals, State-of-the-Art, and Applications. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2