

Sergey I Nikolenko

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

23,380
citations

471509

17
h-index

74163

75
g-index

126
all docs

126
docs citations

126
times ranked

30142
citing authors

#	ARTICLE	IF	CITATIONS
1	SPAdes: A New Genome Assembly Algorithm and Its Applications to Single-Cell Sequencing. Journal of Computational Biology, 2012, 19, 455-477.	1.6	20,193
2	BayesHammer: Bayesian clustering for error correction in single-cell sequencing. BMC Genomics, 2013, 14, S7.	2.8	429
3	druGAN: An Advanced Generative Adversarial Autoencoder Model for de Novo Generation of New Molecules with Desired Molecular Properties in Silico. Molecular Pharmaceutics, 2017, 14, 3098-3104.	4.6	384
4	FDR-controlled metabolite annotation for high-resolution imaging mass spectrometry. Nature Methods, 2017, 14, 57-60.	19.0	314
5	Molecular Sets (MOSES): A Benchmarking Platform for Molecular Generation Models. Frontiers in Pharmacology, 2020, 11, 565644.	3.5	266
6	Tooth detection and numbering in panoramic radiographs using convolutional neural networks. Dentomaxillofacial Radiology, 2019, 48, 20180051.	2.7	231
7	Topic modelling for qualitative studies. Journal of Information Science, 2017, 43, 88-102.	3.3	186
8	RecVAE: A New Variational Autoencoder for Top-N Recommendations with Implicit Feedback. , 2020, , .		85
9	3D Molecular Representations Based on the Wave Transform for Convolutional Neural Networks. Molecular Pharmaceutics, 2018, 15, 4378-4385.	4.6	74
10	Medical concept normalization in social media posts with recurrent neural networks. Journal of Biomedical Informatics, 2018, 84, 93-102.	4.3	65
11	Analysis and Interpretation of Imaging Mass Spectrometry Data by Clustering Mass-to-Charge Images According to Their Spatial Similarity. Analytical Chemistry, 2013, 85, 11189-11195.	6.5	48
12	SAX-PAC (Scalable And eXpressive PAcKet Classification). , 2014, , .		48
13	Large-Scale Transfer Learning for Natural Language Generation. , 2019, , .		47
14	Combination of Deep Recurrent Neural Networks and Conditional Random Fields for Extracting Adverse Drug Reactions from User Reviews. Journal of Healthcare Engineering, 2017, 2017, 1-9.	1.9	45
15	Single Cells within the Puerto Rico Trench Suggest Hadal Adaptation of Microbial Lineages. Applied and Environmental Microbiology, 2015, 81, 8265-8276.	3.1	43
16	Land Cover Classification from Satellite Imagery with U-Net and LovÅ¡sz-Softmax Loss. , 2018, , .		42
17	Latent dirichlet allocation. , 2014, , .		39
18	Towards efficient implementation of packet classifiers in SDN/OpenFlow. , 2013, , .		32

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19	Exploiting Order Independence for Scalable and Expressive Packet Classification. IEEE/ACM Transactions on Networking, 2016, 24, 1251-1264.	3.8	29
20	ColocML: machine learning quantifies co-localization between mass spectrometry images. Bioinformatics, 2020, 36, 3215-3224.	4.1	29
21	Topic Quality Metrics Based on Distributed Word Representations. , 2016, , .		28
22	The event bush as a semantic-based numerical approach to natural hazard assessment (exemplified by) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.25	25
23	Molecular Generation for Desired Transcriptome Changes With Adversarial Autoencoders. Frontiers in Pharmacology, 2020, 11, 269.	3.5	23
24	Multi-queued network processors for packets with heterogeneous processing requirements. , 2013, , .		21
25	SAX-PAC (Scalable And eXpressive PAcKet Classification). Computer Communication Review, 2015, 44, 15-26.	1.8	20
26	Shared Memory Buffer Management for Heterogeneous Packet Processing. , 2014, , .		19
27	Priority queueing with multiple packet characteristics. , 2015, , .		19
28	DeepCycle reconstructs a cyclic cell cycle trajectory from unsegmented cell images using convolutional neural networks. Molecular Systems Biology, 2020, 16, e9474.	7.2	19
29	A taxonomy of Semi-FIFO policies. , 2012, , .		18
30	The Russian Drug Reaction Corpus and neural models for drug reactions and effectiveness detection in user reviews. Bioinformatics, 2021, 37, 243-249.	4.1	18
31	Balancing work and size with bounded buffers. , 2014, , .		17
32	Exploring convolutional neural networks and topic models for user profiling from drug reviews. Multimedia Tools and Applications, 2018, 77, 4791-4809.	3.9	17
33	Building Detection from Satellite Imagery Using a Composite Loss Function. , 2018, , .		17
34	Interval Semi-supervised LDA: Classifying Needles in a Haystack. Lecture Notes in Computer Science, 2013, , 265-274.	1.3	17
35	Structure of Chevalley groups: The proof from the book. Journal of Mathematical Sciences, 2007, 140, 626-645.	0.4	16
36	FIFO Queueing Policies for Packets with Heterogeneous Processing. Lecture Notes in Computer Science, 2012, , 248-260.	1.3	15

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37	Online recommender system for radio station hosting based on information fusion and adaptive tag-aware profiling. Expert Systems With Applications, 2016, 55, 546-558.	7.6	15
38	\mathbf{A}_2 -proof of structure theorems for Chevalley groups of type \mathbf{F}_4 . St Petersburg Mathematical Journal, 2009, 20, 527-551.	0.4	14
39	Strategies for Mitigating TCAM Space Bottlenecks. , 2014, , .		14
40	FIB efficiency in distributed platforms. , 2016, , .		13
41	Using semantic analysis of texts for the identification of drugs with similar therapeutic effects. Russian Chemical Bulletin, 2017, 66, 2180-2189.	1.5	13
42	Online Scheduling FIFO Policies with Admission and Push-Out. Theory of Computing Systems, 2016, 58, 322-344.	1.1	12
43	How to implement complex policies on existing network infrastructure. , 2018, , .		12
44	General ternary bit strings on commodity longest-prefix-match infrastructures. , 2017, , .		11
45	Free-Lunch Saliency via Attention in Atari Agents. , 2019, , .		11
46	Motivic decomposition of anisotropic varieties of type \mathbf{F}_4 into generalized Rost motives. Journal of K-Theory, 2009, 3, 85-102.	0.2	10
47	Single and Multiple Buffer Processing. , 2014, , 1-9.		10
48	Inferring Sentiment-Based Priors in Topic Models. Lecture Notes in Computer Science, 2015, , 92-104.	1.3	10
49	Communities of co-commenting in the Russian LiveJournal and their topical coherence. Internet Research, 2016, 26, 710-732.	4.9	10
50	Robust Distributed Monitoring of Traffic Flows. IEEE/ACM Transactions on Networking, 2021, 29, 275-288.	3.8	10
51	How to represent IPv6 forwarding tables on IPv4 or MPLS dataplanes. , 2016, , .		9
52	Single and Multiple Buffer Processing. , 2016, , 1988-1994.		9
53	Stable Topic Modeling with Local Density Regularization. Lecture Notes in Computer Science, 2016, , 176-188.	1.3	9
54	Directed Cycles in Bayesian Belief Networks: Probabilistic Semantics and Consistency Checking Complexity. Lecture Notes in Computer Science, 2005, , 214-223.	1.3	8

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55	Mining Ethnic Content Online with Additively Regularized Topic Models. <i>Computacion Y Sistemas</i> , 2016, 20, .	0.3	8
56	Word Embeddings for User Profiling in Online Social Networks. <i>Computacion Y Sistemas</i> , 2017, 21, .	0.3	8
57	Stable topic modeling for web science. , 2016, , .		7
58	A programmable buffer management platform. , 2017, , .		7
59	Production of ultrafine-grained spherical $\hat{2}$ -WC-W ₂ C-Co microparticles by electro discharge erosion of WC-15Co alloy in glycerol and their solutions. <i>Materials Research Express</i> , 2020, 7, 096504.	1.6	7
60	Gibbs sampler optimization for analysis of a granulated medium. <i>Technical Physics Letters</i> , 2016, 42, 837-839.	0.7	6
61	AspeRa: Aspect-Based Rating Prediction Model. <i>Lecture Notes in Computer Science</i> , 2019, , 163-171.	1.3	6
62	Robust Distributed Monitoring of Traffic Flows. , 2019, , .		6
63	A Feebly Secure Trapdoor Function. <i>Lecture Notes in Computer Science</i> , 2009, , 129-142.	1.3	6
64	Towards declarative self-adapting buffer management. <i>Computer Communication Review</i> , 2020, 50, 30-37.	1.8	6
65	Large profits or fast gains: A dilemma in maximizing throughput with applications to network processors. <i>Journal of Network and Computer Applications</i> , 2016, 74, 31-43.	9.1	5
66	Network simplification preserving bandwidth and routing capabilities. , 2017, , .		5
67	Throughput optimization with latency constraints. , 2017, , .		5
68	Efficient FIB Representations on Distributed Platforms. <i>IEEE/ACM Transactions on Networking</i> , 2017, 25, 3309-3322.	3.8	5
69	Priority Queueing for Packets With Two Characteristics. <i>IEEE/ACM Transactions on Networking</i> , 2018, 26, 342-355.	3.8	5
70	Land Cover Classification with Superpixels and Jaccard Index Post-Optimization. , 2018, , .		5
71	Breast Tumor Cellularity Assessment Using Deep Neural Networks. , 2019, , .		5
72	Towards Software-Defined Buffer Management. <i>IEEE/ACM Transactions on Networking</i> , 2020, 28, 2337-2349.	3.8	5

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73	New Alternatives to Optimize Policy Classifiers. IEEE/ACM Transactions on Networking, 2020, 28, 1088-1101.	3.8	5
74	Label Denoising with Large Ensembles of Heterogeneous Neural Networks. Lecture Notes in Computer Science, 2019, , 250-261.	1.3	5
75	Constructing Aspect-Based Sentiment Lexicons with Topic Modeling. Communications in Computer and Information Science, 2017, , 208-220.	0.5	5
76	Automated Prediction of Demographic Information from Medical User Reviews. Lecture Notes in Computer Science, 2017, , 174-184.	1.3	5
77	Detecting Interethnic Relations with the Data from Social Media. Communications in Computer and Information Science, 2017, , 16-30.	0.5	5
78	Efficient demand assignment in multi-connected microgrids with a shared central grid. , 2013, , .		4
79	Discerning Depression Propensity Among Participants of Suicide and Depression-Related Groups of Vk.com. Communications in Computer and Information Science, 2015, , 24-35.	0.5	4
80	On demand elastic capacity planning for service auto-scaling. , 2016, , .		4
81	New Alternatives to Optimize Policy Classifiers. , 2018, , .		4
82	Demographic Prediction Based on User Reviews about Medications. Computacion Y Sistemas, 2017, 21, .	0.3	4
83	Online Recommender System for Radio Station Hosting. Lecture Notes in Business Information Processing, 2012, , 1-12.	1.0	4
84	Computational Discovery of TTF Molecules with Deep Generative Models. Frontiers in Chemistry, 2021, 9, 800133.	3.6	4
85	Algebraic cryptography: new constructions and their security against provable break. St Petersburg Mathematical Journal, 2009, 20, 937-953.	0.4	3
86	BASEL (Buffer mAnagement SpEcification Language). , 2016, , .		3
87	Approximate Classifiers with Controlled Accuracy. , 2019, , .		3
88	User Profiling in Text-Based Recommender Systems Based on Distributed Word Representations. Communications in Computer and Information Science, 2017, , 196-207.	0.5	3
89	Faster RPNN: Rendering Clouds with Latent Space Light Probes. , 2019, , .		3
90	Hard satisfiable instances for DPLL-type algorithms. Journal of Mathematical Sciences, 2005, 126, 1205-1209.	0.4	2

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91	On complete one-way functions. Problems of Information Transmission, 2009, 45, 168-183.	0.5	2
92	SVD-LDA: Topic Modeling for Full-Text Recommender Systems. Lecture Notes in Computer Science, 2015, , 67-79.	1.3	2
93	Heterogeneous packet processing in shared memory buffers. Journal of Parallel and Distributed Computing, 2017, 99, 1-13.	4.1	2
94	Planning in compute-aggregate problems as optimization problems on graphs. , 2017, , .		2
95	Improving unsupervised neural aspect extraction for online discussions using out-of-domain classification. Journal of Intelligent and Fuzzy Systems, 2020, 39, 2487-2496.	1.4	2
96	Competitive buffer management for packets with latency constraints. Computer Networks, 2021, 189, 107942.	5.1	2
97	Approximate Packet Classifiers With Controlled Accuracy. IEEE/ACM Transactions on Networking, 2021, 29, 1141-1154.	3.8	2
98	Distributed Counting Along Lossy Paths Without Feedback. Lecture Notes in Computer Science, 2018, , 30-33.	1.3	2
99	Cross-Domain Limitations of Neural Models on Biomedical Relation Classification. IEEE Access, 2022, 10, 1432-1439.	4.2	2
100	Feebly secure cryptographic primitives. Journal of Mathematical Sciences, 2013, 188, 17-34.	0.4	1
101	A Probabilistic Rating System for Team Competitions with Individual Contributions. Communications in Computer and Information Science, 2015, , 3-13.	0.5	1
102	Detecting Opinion Polarisation on Twitter by Constructing Pseudo-Bimodal Networks of Mentions and Retweets. Communications in Computer and Information Science, 2016, , 169-178.	0.5	1
103	The impact of processing order on performance: A taxonomy of semi-FIFO policies. Journal of Computer and System Sciences, 2017, 88, 220-235.	1.2	1
104	Admission control in shared memory switches. Journal of Scheduling, 2018, 21, 533-543.	1.9	1
105	SRPT-based Congestion Control for Flows with Unknown Sizes. , 2021, , .		1
106	Continuous hard-to-invert functions and biometric authentication. Groups, Complexity, Cryptology, 2012, 4, .	0.3	0
107	A complete one-way function based on a finite rank free $\mathbb{Z} \times \mathbb{Z}$ -module. Journal of Mathematical Sciences, 2013, 192, 307-315.	0.4	0
108	Efficient demand assignment in multi-connected microgrids. , 2013, , .		0

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109	Circuit complexity of linear functions: gate elimination and feeble security. Journal of Mathematical Sciences, 2013, 188, 35-46.	0.4	0
110	Pseudo-bimodal community detection in Twitter-based networks. , 2016, , .		0
111	Personal insights on three research directions in networked systems. , 2018, , .		0
112	Formalizing Compute-Aggregate Problems in Cloud Computing. Lecture Notes in Computer Science, 2018, , 377-391.	1.3	0
113	Formalization and taxonomy of compute-aggregate problems for cloud computing applications. Computer Networks, 2021, 189, 107915.	5.1	0
114	ResNet. , 2021, , 99-114.		0
115	Improving Quality of Service for Radio Station Hosting: An Online Recommender System Based on Information Fusion. SSRN Electronic Journal, 0, , .	0.4	0
116	Recognizing Preferred Grammatical Gender in Russian Anonymous Online Confessions. Lecture Notes in Computer Science, 2020, , 222-230.	1.3	0