

**СПИСОК**  
**публикаций, в которых излагаются основные научные результаты диссертации**  
**на соискание ученой степени доктора наук**  
**по научной специальности 1.2.3 Теоретическая информатика, кибернетика**  
**на тему: Алгоритмы для сетевых приложений и их теоретический анализ,**  
**опубликованных в рецензируемых изданиях**

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№ п/п	Название публикации на языке оригинала (при иноязычном названии – перевод на англ. / русс. яз.)	Тип публикации	DOI	Наименование издания	ISSN издания	Выходные данные публикации (Номер тома, Номер части тома, Номер журнала, Страницы размещения публикации в журнале, Год)	Интернет - адрес публикации в журнале	Библиографическая база данных (eLIBRARY, Web of Science, Scopus и др.), в которой публикуется публикация	№ публикации в списке литературы диссертации	№ страницы диссертации, на которой приводится ссылка на публикацию	Объем публикации (печ. л/авт. л., личн. вклад)*	Соавторы
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Approximate Packet Classifiers With Controlled Accuracy	статья в журнале	10.1109/TN-ET.2021.3056948	IEEE Transactions on Networking	1063-6692	vol. 29, no. 3, 2021, pp. 1141--1154	<a href="https://ieeexplore.ieee.org/document/9354448">https://ieeexplore.ieee.org/document/9354448</a>	WoS/Scopus	1	152	0.8	V. Demianiuk, K. Kogan
2	Robust Distributed Monitoring of Traffic Flows	статья в журнале	10.1109/TN-ET.2020.3034890	IEEE Transactions on Networking	1063-6692	vol. 29, no. 1, 2021, pp. 275--288	<a href="https://ieeexplore.ieee.org/document/9260251">https://ieeexplore.ieee.org/document/9260251</a>	WoS/Scopus	2	194	0.8	V. Demianiuk, S. Gorinsky, K. Kogan
3	Competitive buffer management for	статья в журнале	10.1016/j.comnet.2021.1	Computer Networks	1389-1286	vol. 189, no. 22, Article ID	<a href="https://www.sciencedirect.com/science">https://www.sciencedirect.com/science</a>	WoS/Scopus	3	77	0.8	A. Davydow, P. Chuprikov, K.



	packets with latency constraints		07942			107942, 2021	<a href="https://www.sciencedirect.com/science/article/pii/S1389128621000839">e/article/pii/S1389128621000839</a>					Kogan
4	Formalization and taxonomy of compute-aggregate problems for cloud computing applications	статья в журнале	10.1016/j.comnet.2021.107915	Computer Networks	1389-1286	vol. 189, no. 22, Article ID 107915, 2021	<a href="https://www.sciencedirect.com/science/article/pii/S1389128621000694">https://www.sciencedirect.com/science/article/pii/S1389128621000694</a>	WoS/Scopus	4	178	0.8	P. Chuprikov, A. Davydow, K. Kogan, A.V. Sirotkin
5	Towards Software-Defined Buffer Management	статья в журнале	10.1109/TNET.2020.3011048	IEEE Transactions on Networking	1063-6692	vol. 28, no. 5, 2020, pp. 2337--2349	<a href="https://ieeexplore.ieee.org/document/9161260/">https://ieeexplore.ieee.org/document/9161260/</a>	WoS/Scopus	5	48	0.3	K. Kogan, D. Menikkumbura, G. Petri, Y. Noh, A.V. Sirotkin, P. Eugster
6	Towards Declarative Self-Adapting Buffer Management	статья в журнале	10.1145/3411745	ACM SIGCOMM Computer Communication Review	0146-4833	vol. 50, no. 3, 2020, pp. 30--37	<a href="https://dl.acm.org/doi/10.1145/3411745">https://dl.acm.org/doi/10.1145/3411745</a>	WoS/Scopus	6	85	0.4	P. Chuprikov, K. Kogan
7	New Alternatives to Optimize Policy Classifiers	статья в журнале	10.1109/TNET.2020.2979400	IEEE Transactions on Networking	1063-6692	vol. 28, no. 3, 2020, pp. 1088--1101	<a href="https://ieeexplore.ieee.org/document/9046813">https://ieeexplore.ieee.org/document/9046813</a>	WoS/Scopus	7	146	0.8	V. Demianiuk, P. Chuprikov, K. Kogan
8	Priority Queueing for Packets with Two Characteristics	статья в журнале	10.1109/TNET.2017.2782771	IEEE Transactions on Networking	1063-6692	vol. 26, no. 1, 2018, pp. 342--355	<a href="https://ieeexplore.ieee.org/document/8248810">https://ieeexplore.ieee.org/document/8248810</a>	WoS/Scopus	8	70	0.8	P. Chuprikov, K. Kogan, A. Davydow
9	Admission Control in Shared Memory Switches	статья в журнале	10.1007/s10951-018-0564-2	Journal of Scheduling	1094-6136	vol. 21, no. 5, 2018, pp. 533--543	<a href="https://link.springer.com/article/10.1007%2Fs10951-018-0564-2">https://link.springer.com/article/10.1007%2Fs10951-018-0564-2</a>	WoS/Scopus	9	61	0.8	P. Eugster, A. Kesselman, K. Kogan, A.V. Sirotkin
10	Efficient FIB Representations on Distributed Platforms	статья в журнале	10.1109/TNET.2017.2728642	IEEE Transactions on Networking	1063-6692	vol. 25, no. 6, 2017, pp. 3309--3322	<a href="https://ieeexplore.ieee.org/document/8008845">https://ieeexplore.ieee.org/document/8008845</a>	WoS/Scopus	10	138	0.8	K. Kogan, P. Eugster, A. Shalimov, O. Rottenstreich
11	Heterogeneous Packet Processing in Shared Memory Buffers	статья в журнале	10.1016/j.jpdc.2016.07.002	Journal of Parallel and Distributed Computing	0743-7315	vol. 99, 2017, pp. 1--12	<a href="https://www.sciencedirect.com/science/article/pii/S0743731516300879">https://www.sciencedirect.com/science/article/pii/S0743731516300879</a>	WoS/Scopus	11	61	0.8	P. Eugster, K. Kogan, A.V. Sirotkin
12	The Impact of Processing Order on Performance: A Taxonomy of Semi-FIFO Policies	статья в журнале	10.1016/j.jcs.2017.04.001	Journal of Computer and System Sciences	0022-0000	vol. 88, 2017, pp. 220--235	<a href="https://www.sciencedirect.com/science/article/pii/S0022000017300545">https://www.sciencedirect.com/science/article/pii/S0022000017300545</a>	WoS/Scopus	12	42	0.8	K. Kogan, A. López-Ortiz, A.V. Sirotkin
13	Large profits or fast gains: A Dilemma in Maximizing Throughput with Applications to Network Processors	статья в журнале	10.1016/j.jnca.2016.07.010	Journal of Network and Computer Applications	1084-8045	vol. 74, 2016, pp. 31--43	<a href="https://www.sciencedirect.com/science/article/pii/S1084804516301540">https://www.sciencedirect.com/science/article/pii/S1084804516301540</a>	WoS/Scopus	13	65	0.8	K. Kogan, A. López-Ortiz, G. Scalosub, M. Segal



14	Exploiting Order Independence for Scalable and Expressive Packet Classification	статья в журнале	10.1109/TN-ET.2015.2407831	IEEE Transactions on Networking	1063-6692	vol. 24, no. 2, 2016, pp. 1251--1264	<a href="https://ieeexplore.ieee.org/document/7061970">https://ieeexplore.ieee.org/document/7061970</a>	WoS/Scopus	14	110	0.8	K. Kogan, O. Rottenstreich, W. Culhane, P. Eugster
15	Robust Distributed Monitoring of Traffic Flows	статья в трудах конференции	10.1109/ICNP.2019.8888046	27th IEEE International Conference on Network Protocols (ICNP 2019)	1092-1648	2019, pp. 1--11	<a href="https://ieeexplore.ieee.org/document/8888046">https://ieeexplore.ieee.org/document/8888046</a>	WoS/Scopus	15	194	0.6	V. Demianiuk, S. Gorinsky, K. Kogan
16	Approximate Classifiers with Controlled Accuracy	статья в трудах конференции	10.1109/INFOCOM.2019.8737476	38th IEEE International Conference on Computer Communications (INFOCOM 2019)	0743-166X	2019, pp. 2044--2052	<a href="https://ieeexplore.ieee.org/document/8737476">https://ieeexplore.ieee.org/document/8737476</a>	WoS/Scopus	16	152	0.6	V. Demianiuk, K. Kogan
17	New Alternatives to Optimize Policy Classifiers	статья в трудах конференции	10.1109/ICNP.2018.00022	26th IEEE International Conference on Network Protocols (ICNP 2018)	1092-1648	2018, pp. 121--131	<a href="https://ieeexplore.ieee.org/document/8526810">https://ieeexplore.ieee.org/document/8526810</a>	WoS/Scopus	17	146	0.6	V. Demianiuk, P. Chuprikov, K. Kogan
18	Network Simplification Preserving Bandwidth and Routing Capabilities	статья в трудах конференции	10.1109/INFOCOM.2017.8057092	Proc. 2017 IEEE International Conference on Computer Communications (INFOCOM 2017)	0743-166X	2017	<a href="https://ieeexplore.ieee.org/document/8057092">https://ieeexplore.ieee.org/document/8057092</a>	WoS/Scopus	18	166	0.6	K. Kogan, A. Fernández Anta
19	Throughput Optimization with Latency Constraints	статья в трудах конференции	10.1109/INFOCOM.2017.8057015	Proc. 2017 IEEE International Conference on Computer Communications (INFOCOM 2017)	0743-166X	2017	<a href="https://ieeexplore.ieee.org/document/8057015">https://ieeexplore.ieee.org/document/8057015</a>	WoS/Scopus	19	77	0.6	A.P. Davydow, P. Chuprikov, K. Kogan
20	General Ternary Bit Strings on Commodity Longest-Prefix-Match Infrastructures	статья в трудах конференции	10.1109/ICNP.2017.8117542	Proc. 25th IEEE International Conference on Network Protocols (ICNP 2017)	1092-1648	2017	<a href="https://ieeexplore.ieee.org/document/8117542">https://ieeexplore.ieee.org/document/8117542</a>	WoS/Scopus	20	118	0.6	P. Chuprikov, K. Kogan
21	Planning in Compute-Aggregate Problems as Optimization Problems on Graphs	статья в трудах конференции	10.1109/ICNP.2017.8117579	Proc. 25th IEEE International Conference on Network Protocols (ICNP 2017)	1092-1648	2017	<a href="https://ieeexplore.ieee.org/document/8117579">https://ieeexplore.ieee.org/document/8117579</a>	WoS/Scopus	21	178	0.6	P. Chuprikov, A.P. Davydow, K. Kogan, A.V. Sirotkin
22	A Programmable Buffer Management Platform	статья в трудах конференции	10.1109/ICNP.2017.8117533	Proc. 25th IEEE International Conference on Network Protocols (ICNP 2017)	1092-1648	2017	<a href="https://ieeexplore.ieee.org/document/8117533/">https://ieeexplore.ieee.org/document/8117533/</a>	WoS/Scopus	22	48	0.6	K. Kogan, D. Menikkumbura, G. Petri, Y. Noh, A.V. Sirotkin, P. Eugster
23	On Demand Elastic Capacity Planning for Service Auto-scaling	статья в трудах конференции	10.1109/INFOCOM.2016.7524616	Proceedings of 2016 IEEE International Conference on Computer Communications	0743-166X	2016	<a href="https://ieeexplore.ieee.org/document/7524616">https://ieeexplore.ieee.org/document/7524616</a>	WoS/Scopus	23	178	0.6	P. Chuprikov, K. Kogan



				(INFOCOM 2016)								
24	FIB Efficiency in Distributed Platforms	статья в трудах конференции	10.1109/ICNP.2016.7784452	Proc. 24th IEEE International Conference on Network Protocols (ICNP 2016)	1092-1648	2016	<a href="https://ieeexplore.ieee.org/document/7784452">https://ieeexplore.ieee.org/document/7784452</a>	WoS/Scopus	24	138	0.6	K. Kogan, P. Eugster, A. Shalimov, O. Rottenstreich
25	Priority Queueing with Multiple Packet Characteristics	статья в трудах конференции	10.1109/INFOCOM.2015.7218519	Proceedings of 2015 IEEE International Conference on Computer Communications (INFOCOM 2015)	0743-166X	2015, pp. 1418--1426	<a href="https://ieeexplore.ieee.org/document/7218519">https://ieeexplore.ieee.org/document/7218519</a>	WoS/Scopus	25	70	0.6	P. Chuprikov, K. Kogan
26	SAX-PAC (Scalable And eXpressive Packet Classification)	статья в трудах конференции	10.1145/2619239.2626294	Proceedings of ACM SIGCOMM 2014	0146-4833	ACM Press, 2014, pp. 15--26	<a href="https://dl.acm.org/doi/10.1145/2619239.2626294">https://dl.acm.org/doi/10.1145/2619239.2626294</a>	WoS/Scopus	26	110	0.6	K. Kogan, O. Rottenstreich, W. Culhane, P. Eugster
27	Shared Memory Buffer Management for Heterogeneous Packet Processing	статья в трудах конференции	10.1109/ICDCS.2014.5	34th International Conference on Distributed Computing Systems (ICDCS 2014)	1063-6927	2014	<a href="https://ieeexplore.ieee.org/document/6888923">https://ieeexplore.ieee.org/document/6888923</a>	WoS/Scopus	27	61	0.6	P. Eugster, K. Kogan, A.V. Sirotkin
28	Online Scheduling FIFO Policies with Admission and Push-Out	статья в журнале	10.1007/s00224-015-9626-4	Theory of Computing Systems	1432-4350	vol. 58, no. 2, 2016, pp. 322-344	<a href="https://link.springer.com/article/10.1007%2Fs00224-015-9626-4">https://link.springer.com/article/10.1007%2Fs00224-015-9626-4</a>	WoS/Scopus	28	42	0.7	K. Kogan, A. Lòpez-Ortiz, A.V. Sirotkin
29	Distributed Counting along Lossy Paths Without Feedback	статья в трудах конференции	10.1007/978-3-030-01325-7_5	25th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2018)	ISBN 978-3-030-01324-0	Lecture Notes in Computer Science, vol. 11685, 2018, pp. 30--33	<a href="https://link.springer.com/chapter/10.1007%2F978-3-030-01325-7_5">https://link.springer.com/chapter/10.1007%2F978-3-030-01325-7_5</a>	WoS/Scopus	29	194	0.6	V. Demianiuk, S. Gorinsky, K. Kogan
30	Formalizing Compute-Aggregate Problems in Cloud Computing	статья в трудах конференции	10.1007/978-3-030-01325-7_31	25th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2018)	ISBN 978-3-030-01324-0	Lecture Notes in Computer Science, vol. 11685, 2018, pp. 377--391	<a href="https://link.springer.com/chapter/10.1007%2F978-3-030-01325-7_31">https://link.springer.com/chapter/10.1007%2F978-3-030-01325-7_31</a>	WoS/Scopus	30	178	0.6	P. Chuprikov, A. Davydow, K. Kogan, A.V. Sirotkin
31	Essential Traffic Parameters for Shared Memory Switch Performance	статья в трудах конференции	10.1007/978-3-319-25258-2_5	22nd International Colloquium on Structural Information and Communication Complexity (SIROCCO 2015)	ISBN 978-3-319-25257-5	Lecture Notes in Computer Science, vol. 9439, Springer, 2015, pp. 61--75	<a href="https://link.springer.com/chapter/10.1007%2F978-3-319-25258-2_5">https://link.springer.com/chapter/10.1007%2F978-3-319-25258-2_5</a>	WoS/Scopus	31	61	0.6	P. Eugster, A. Kesselman, K. Kogan, A.V. Sirotkin
32	A Taxonomy of Semi-FIFO Policies	статья в трудах конференции	10.1109/PCCC.2012.6407771	Proc. 31st IEEE International Performance Computing and Communications	1097-2641	2012, pp. 295--304	<a href="https://ieeexplore.ieee.org/document/6407771">https://ieeexplore.ieee.org/document/6407771</a>	WoS/Scopus	32	42	0.6	K. Kogan, A. Lòpez-Ortiz, A.V. Sirotkin




				Conference (IPCCC 2012)								
33	Personal Insights on Three Research Directions in Networked Systems	статья в трудах конференции	10.1109/COMSNETS.2018.8328185	Proc. 10th International Conference on Communication Systems and Networks (COMSNETS 2018)	2155-2487	IEEE, 2018, pp. 1–10	<a href="https://ieeexplore.ieee.org/document/8328185">https://ieeexplore.ieee.org/document/8328185</a>	WoS/Scopus	33	6	0.6	K. Kogan, V. Demianiuk, P. Chuprikov, A.P. Davydow
34	How to implement complex policies on existing network infrastructure	статья в трудах конференции	10.1145/3185467.3185477	Proc. 4th Symposium on SDN Research (SOSR 2018)	ISBN 978-1-4503-5664-0	ACM, 2018, pp. 1--8	<a href="https://dl.acm.org/doi/10.1145/3185467.3185477">https://dl.acm.org/doi/10.1145/3185467.3185477</a>	WoS/Scopus	34	118	0.4	P. Chuprikov, K. Kogan
35	How to Represent IPv6 Forwarding Tables on IPv4 or MPLS Dataplanes	статья в трудах конференции	10.1109/INFOCOMW.2016.7562132	Proc. 2016 IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS): GI 2016: 9th IEEE Global Internet Symposium (IEEE GI 2016)	ISBN 978-1-4673-9956-2	IEEE, 2016	<a href="https://ieeexplore.ieee.org/document/7562132">https://ieeexplore.ieee.org/document/7562132</a>	WoS/Scopus	35	118	0.4	K. Kogan, G. Retvari, E.R. Berczi-Kovacs, A. Shalimov
36	BASEL (Buffering Architecture Specification Language)	статья в трудах конференции	10.1145/2881025.2881027	Proc. 12th ACM/IEEE Symposium on Architectures for Networking and Communications Systems (ANCS 2016)	ISBN 978-1-4503-4183-7	IEEE, 2016, pp. 69--74	<a href="https://dl.acm.org/doi/10.1145/2881025.2881027">https://dl.acm.org/doi/10.1145/2881025.2881027</a>	WoS/Scopus	36	48	0.6	K. Kogan, D. Menikkumbura, G. Petri, Y. Noh, P. Eugster.
37	Strategies for Mitigating TCAM Space Bottlenecks	статья в трудах конференции	10.1109/HOTI.2014.17	22nd IEEE Annual Symposium on High-Performance Interconnects (HOTI 2014)	1550-4794	IEEE, 2014, pp. 25--32	<a href="https://ieeexplore.ieee.org/document/6925715">https://ieeexplore.ieee.org/document/6925715</a>	WoS/Scopus	37	110	0.4	K. Kogan, P. Eugster, E. Ruan
38	Balancing Work and Size with Bounded Buffers	статья в трудах конференции	10.1109/COMSNETS.2014.6734878	Proc. 6th International Conference on Communication Systems and Networks (COMSNETS 2014)	2155-2487	2014	<a href="https://ieeexplore.ieee.org/document/6734878">https://ieeexplore.ieee.org/document/6734878</a>	WoS/Scopus	38	65	0.6	K. Kogan, A. Lòpez-Ortiz, G. Scalosub
39	Multi-Queued Network Processors for Packets with Heterogeneous Processing Requirements	статья в трудах конференции	10.1109/COMSNETS.2013.6465538	Proc. 5th International Conference on Communication Systems and Networks (COMSNETS 2013)	2155-2487	2013	<a href="https://ieeexplore.ieee.org/document/6465538">https://ieeexplore.ieee.org/document/6465538</a>	WoS/Scopus	39	65	0.6	K. Kogan, A. Lòpez-Ortiz, A.V. Sirotkin

40	Efficient Demand Assignment in Multi-Connected Microgrids with a Shared Central Grid	статья в трудах конференции	10.1109/SustainIT.2013.6685197	Proc. 3rd IFIP Conference on Sustainable Internet and ICT for Sustainability 2013 (SustainIT 2013)	ISBN 978-3-901882-56-2	2013	<a href="https://ieeexplore.ieee.org/document/6685197">https://ieeexplore.ieee.org/document/6685197</a>	WoS/Scopus	40	187	0.4	K. Kogan, S. Keshav, A. Lòpez-Ortiz
41	Efficient demand assignment in multi-connected microgrids	статья в трудах конференции	10.1145/2487166.2487205	e-Energy '13: Proceedings of the fourth international conference on Future energy systems	ISBN 978-1-4503-2052-8	2013, pp. 277--278	<a href="https://dl.acm.org/doi/10.1145/2487166.2487205">https://dl.acm.org/doi/10.1145/2487166.2487205</a>	WoS/Scopus	41	187	0.2	K. Kogan, S. Keshav, A. Lòpez-Ortiz
42	Towards efficient implementation of packet classifiers in SDN/OpenFlow	статья в трудах конференции	10.1145/2491185.2491219	HotSDN '13: Proceedings of the second ACM SIGCOMM workshop on Hot topics in software defined networking	ISBN 978-1-4503-2178-5	2013, pp. 153--154	<a href="https://dl.acm.org/doi/10.1145/2491185.2491219">https://dl.acm.org/doi/10.1145/2491185.2491219</a>	WoS/Scopus	42	110	0.2	K. Kogan, W. Culhane, P. Eugster, E. Ruan

Подтверждаю, что все основные научные результаты моей диссертации «Алгоритмы для сетевых приложений и их теоретический анализ» опубликованы в вышеприведенных 44 публикациях, в том числе: в рецензируемых научных изданиях из перечня, утвержденного Минобрнауки РФ - 44 публикации; в изданиях, индексируемых в наукометрических базах данных Web of Science и Scopus - 44 публикации.

Вышеуказанные публикации прилагаются на электронном носителе.

15.02.2022 /  / Николенко Сергей Игоревич /