

LIST
of educational publications and scientific papers
author Leonid V. Kurakhtenkov

No	Title	Type	Output	Volume in p.s. or p.	Co-authors
1	2	3	4	5	6
I. Educational publications					
1	Modeling of the algorithm for optimal detection of deterministic signals against a white noise background in the SPEKTR-2 environment Workshop on the discipline "Fundamentals of statistical radio engineering" for students studying in the Bachelor's degree program 11.03.02	Pechatnaya	M., MTUCI, 2018	1. 2 p. s. / 0.3 p.s.	Lobova E. O. Lobov E. M.
2	Educational and methodical manual for conducting practical classes in the discipline "Noise-resistant coding" for students studying in the bachelor's degree programs 11.03.01, 11.03.02, 11.04.01, 11.04.02.	Pechatnaya	M., MTUCI, 2018	. 5 pp / 2 pp.	Rusanov V. E.
3	Educational and methodical guide for the implementation of a course project on the discipline "Satellite radio navigation systems" for students studying in the bachelor's degree program 11.03.01	Printed	Moscow, MTUCI, 2019	1 p. l . / 0.5 p. l	. Chirov D. S.
II. Research papers					

4	Signal interpolation with irregular sampling (Scientific article). HAC list for April 2008	Printed	T-Comm-Telecommunications and Transport, No. 4, 2009, pp. 20-22	3 p. / 2 p.	Adzhemov S. S. Romanov E. Yu
5	Algorithm for steganographic information hiding using graphs. (Scientific article). HAC list for April 2008	Printed	T-Comm-Telecommunications and Transport, No. 4, 2009, pp. 33-35	3 p. / 2 p.	Kuchumov A. A.
6	New methods of signal interpolation with irregular sampling and their application. (Scientific article). List of the Higher Attestation Commission until 30.11.2015 No. 1880	Printed	T-Comm-Telecommunications and Transport, No. 11, 2010, pp.	46-48 3 p. / 2 p	. Zhankevich O. A. Kuchumov A. A.
7	Features of application of signal interpolation methods with irregular sampling. (Scientific article). List of the Higher Attestation Commission until 30.11.2015 No. 1880	Printed	T-Comm-Telecommunications and Transport, No. 11, 2011, p. 48-50	3 p	-
8	Convergence of an iterative method for restoring an unevenly sampled signal. (Scientific article). List of the Higher Attestation Commission until 30.11.2015 No. 1880	Printed	T-publication T-Comm-Telecommunications and Transport, No. 9, 2012, pp.	93-97 5sq.	-9

9	Assessment of the status of the Globalstar communication system's orbital constellation and related restrictions in customer service (Scientific article). HAC list up to 19.04.2016 № 1260	Printed form	Technologies and means of communication, No. 1, 2016, pp.	58-63 6 p . / 4 p.	Akimov A. A. Smirnov S. A. Chazov V. V.
10	Iridium Personal Satellite Communications System: 18 years in orbit (Scientific article). HAC list up to 19.04.2016 № 1260	Printed form	Technologies and means of communication, No. 2, 2016, pp. 56-61	6 p . / 3 p.	Akimov A. A. Smirnov S. A. Chazov V. V.
11	Development of algorithms for performing set-theoretic operations with regions on a spherical surface (Scientific article). List of Higher Attestation Commission No. 22 as of 27.01.2017	Printed	T-Comm-Telecommunications and Transport, No. 2, 2017, pp.	32-36 5 p . / 3 p.	Ivanov D. V. Tyapkin M. A.
12	Use of ITU-R recommendations for calculating tropospheric radio signal attenuation in satellite system simulation problems (Scientific article).	Printed form	Synchronization, signal generation, and signal processing systems. 2017. Vol. 8. No. 3. pp. 70-74.	5 p . / 2 p.	Grishin D. V. Danilov D. Yu
. 13	Development of an algorithm for constructing isolines based on calculated data on a spherical surface (Scientific article). HAC List No. 22 as of 25.04.2017	Printed	T-Comm: Telecommunications and Transport. 2017. Vol. 11. no. 5. pp. 21-25.	5 p . / 4 s.	Кучумов А.А. Шкиль К.Ю.
14	Use of ITU-R recommendations in calculating tropospheric signal attenuation in	Печатная	2017 Systems of Signal Synchronization, Generating and Processing in	5 с. / 2 с.	Grishin D.V. Danilov D.Y.

	the simulation modeling problems of satellite systems Use of ITU-R recommendations for calculating tropospheric radio signal attenuation in satellite system simulation problems (Scientific article). Indexed in the Scopus MBD		Telecommunications (SINKHROINFO 2017). Kazan, Russia 3-4 July 2017. USA, NY: IEEE, 2017.		
15	Study of the possibility of synchronization of time stamps of spacecraft avionics in various types of orbits using GLONASS / GPS signals (Scientific article).	Printed form	Proceedings of the XII International Scientific and Technical Conference "Information Society Technologies". Moscow, Moscow Technical University of Communications and Informatics(MTUCI), March 14-15, 2018 In 2 volumes. Volume 1. pp. 183-184. Moscow: Media Publisher Publishing House, 2018.2	p. / 1 p.	Grishin D. V. Kuchumov A. A.
16	Means of communication of modern spacecraft (Scientific article).	Printed form	Proceedings of the XII International Scientific and Technical Conference "Information Society Technologies". Moscow, Moscow Technical University of Communications and Informatics(MTUCI), March 14-15, 2018 In 2 volumes. Volume 1. pp. 179-182. Moscow: Media Publisher Publishing House, 2018	3 p . / 1 p.	Grishin D. V. Spodobaev A.M. 17

17	On the effect of sampling on the modulation transfer function of optoelectronic survey systems (Scientific article).	Printed form	Proceedings of the XII International Scientific and Technical Conference "Information Society Technologies". Moscow, Moscow Technical University of Communications and Informatics(MTUCI), March 14-15, 2018 In 2 volumes. Volume 1. Pp. 172-174. M.: Media Publisher Publishing House, 2018	3 p . / 2 p	. Zhilichkin A. G. Кучумов А.А.
18	An algorithm for maintaining a given structure of an earth satellite constellation Algorithm for maintaining a given ballistic structure of a satellite system (Scientific article). Indexed in the Scopus MBD	Печатная	2019 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO 2019). Yaroslavl, Russia 1-3 July 2019. USA, NY: IEEE, 2019.	5 с. / 2 с.	Chazov, V.V., Ivandikov, F.I., Kuchumov, A.A., Kurakhtenkov, L.V., Magsumov, V.R.
19	Investigation of the dependency of the information delivery efficiency on the productivity of the Earth remote sensing. Investigation of the dependence of the efficiency of information delivery on the performance of the space remote sensing system of the Earth. (Scientific article). HAC List No. 62 as of 21.11.2019	Printed	T-Comm: Telecommunications and Transport. 2019. Vol. 14. no. 12. pp. 21-25.	5 p. / 3 p	. Chirov D. S., Domozhakova V. V.
20	Investigation of the effect of taking into account the rotational and vibrational movements of the Earth's axis on the accu-	Printed	In the proceedings of Information Society Technologies. X International Industrial Scientific and Technical Conference:	s. / 3 s.	Domozhakova V. V. Kuchumov A. A.

	racy of calculating the average time of operational observation of spacecraft from points on the Earth		collection of works. 2016.5		
21	On the Probability of Decryption of Three-Spanned Test-Object Indexed in the Scopus MBD	Printed	2021 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO) https://ieeexplore.ieee.org/document/9488401		A. A. Kuchumov; Yu. M. Serebrennikova; A. G. Zhilichkin
III. Certificates of official registration of a computer program					
22	Processing and editing of bit data.	-	Certificate of official registration of a computer program No. 2006614020, Moscow, 2006.	1 sec.	Kuchumov A. A. Lebedev A. N. Negrozov E. A.
23	Statistical processing and visualization of bit data.	-	Certificate of official registration of a computer program No. 2007612103, Moscow, 2007.	1 sec.	Kuchumov A. A. Lebedev A. N.
24	Modeling of indirect ionospheric propagation of a radio signal.	-	Certificate of official registration of a computer program No. 2011610340, Moscow, 2011	, 1 p.	Kuchumov A. A. Ryabtsev V. V.
25	Global calculation of ionospheric state parameters	-	Certificate of official registration of a computer program No. 2011610421, Moscow, 2011	, 1 p.	Kuchumov A. A. Ryabtsev V. V.
26	Client-server complex for transmitting additional data in UDP-transactions	-	Certificate of official registration of a computer program No. 2016617714, Moscow, 2016.	1 p	. -
27	Client-server complex for transmitting	-	Certificate of official registration of a	1 p	. -

	additional data in FTP-transactions		computer program No. 2016660547, Moscow, 2016.		
28	Neural network analysis utility for JPEG images	-	Certificate of official registration of a computer program No. 2016617753, Moscow, 2016.	1 p	. -
29	Utility for modifying information in BMP containers	-	Certificate of official registration of a computer program No. 2016660561, Moscow, 2016.	1 p	. -
30	Multi-beam radiation pattern modeling utility	-	Certificate of official registration of a computer program No. 2016660029, Moscow, 2016.	1 p.	Akimov A. A. Ivanov V. I.
31	Interactive constructor of satellite constellation orbits	-	Certificate of official registration of a computer program No. 2016660410, Moscow, 2016.	1 p.	Akimov A. A. Domozhakova V. V. Kuchumov A. A. Chazov V. V.
32	Utility for calculating the satellite orbit by numerical integration	-	Certificate of official registration of a computer program No. 2016660421, Moscow, 2016.	1 p.	Domozhakova V. V. Chazov V. V.
33	Utility for creating a statistical portrait of a JPEG image	-	Certificate of official registration of a computer program No. 2016660427, Moscow, 2016.	1 p.	Kuchumov A. A.
34	Utility for modifying information in TIFF containers	-	Certificate of official registration of a computer program No. 2016660435, Moscow, 2016.	1 p	. -
35	Utility for calculating spatial-frequency histograms of JPEG files	-	Certificate of official registration of a computer program No. 2016660428,	1 p.	Kuchumov A. A. Ryabtsev V. V.

			Moscow, 2016.		
36	Program for finding statistical deviations in JPEG filesJPEG	-	Certificate of official registration of a computer program No. 2016660474, Moscow, 2016.	1 p.	Kuchumov A. A.
37	Utility for modifying information in JPEG containersJPEG	-	Certificate of official registration of a computer program No. 2016660551, Moscow, 2016.	1 p.	Adzhemov S. S. Kuchumov A. A.
38	Complex of simulation modeling of satellite systems functioning	-	Certificate of official registration of a computer program No. 2016660473, Moscow, 2016.	1 p.	Adzhemov S. S. Kuchumov A. A.
39	Utility for deleting an electronic device portrait	-	Certificate of official registration of a computer program No. 2016660473, Moscow, 2016.	1 p.	Kuchumov A. A. Priputin V. S.
40	Modeling of satellite radio communication and navigation systems	-	Certificate of computer program registration RU 2019666806, 13.12.2019.		D. S. Chirov Domozhakova V. V.