Kuznetsov A A

List of Publications by Year
in descending order

106 papers	1,032 citations	933447 10 h-index	752698 20 g-index
115 all docs	115 docs citations	115 times ranked	167 citing authors

#	Article	IF	Citations
1	Designing of fault-tolerant computer system structures using residue number systems. Open Computer Science, 2022, 12, 66-74.	1.7	0
2	Direct Spread Spectrum Technology for Data Hiding in Audio. Sensors, 2022, 22, 3115.	3.8	5
3	Processing of the Residuals of Numbers in Real and Complex Numerical Domains. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 529-555.	0.7	5
4	Fundamentals of Functioning of Global Contact Monitoring Systems in the Context of COVID-19 Spread Prevention. Lecture Notes in Networks and Systems, 2021, , 311-328.	0.7	0
5	Convolutional Neural Networks to Protect Against Spoofing Attacks on Biometric Face Authentication. Lecture Notes in Business Information Processing, 2021, , 123-146.	1.0	1
6	Full Non-Binary Constant-Weight Codes. SN Computer Science, 2021, 2, 1.	3.6	0
7	Noise-like discrete signals for asynchronous code division radio systems. Radiotekhnika, 2021, , 175-183.	0.1	0
8	Steganographic methods in vector graphics. Radiotekhnika, 2021, , 32-41.	0.1	0
9	Biometric Cryptosystems: Overview, State-of-the-Art and Perspective Directions. Lecture Notes in Networks and Systems, 2021, , 66-84.	0.7	6
10	Biometric Authentication Using Convolutional Neural Networks. Lecture Notes in Networks and Systems, 2021, , 85-98.	0.7	3
11	Output Feedback Encryption Mode: Periodic Features of Output Blocks Sequence. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 621-648.	0.7	0
12	Representation of Cascade Codes in the Frequency Domain. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 557-587.	0.7	1
13	Data Hiding in Vector Images. , 2021, , .		2
14	Experimental Researches of Biometric Authentication Using Convolutional Neural Networks and Histograms of Oriented Graphs. , 2021, , .		1
15	Investigation of the computational complexity of methods for hiding information in cluster steganosystems. Radiotekhnika, 2021, , 77-87.	0.1	0
16	Fault Tolerance Computer System Structures Functioning in Residue Classes. , 2021, , .		4
17	Mathematical Model of the Reliability of a Computer System which is Functioning in the Residual Class System, Taking into Account the Reliability of Switching Devices. , 2021, , .		1
18	Investigation of heuristic search functions for nonlinear substitutions for symmetric cryptography. Radiotekhnika, 2021, , 53-63.	0.1	0

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19	Investigation of the Correlation Properties of Spreading Sequences for Asynchronous CDMA. , 2021, , .		0
20	Performance Evaluation of the Classic McEliece Key Encapsulation Algorithm. , 2021, , .		2
21	Optimization of local search algorithm parameters for generating nonlinear substitutions. Radiotekhnika, 2021, , 64-76.	0.1	0
22	Research of the Particle Swarm Method for Generating Nonlinear Substitutions. , 2021, , .		1
23	Optimizing the Local Search Algorithm for Generating S-Boxes. , 2021, , .		6
24	Information Technology for Contact Tracing in the COVID-19 Pandemic. , 2021, , .		0
25	WHS Cost Function for Generating S-boxes. , 2021, , .		4
26	Implementation of Arithmetic Operations in the Residue Numeral System. , 2021, , .		0
27	A Method for Implementing the Operation of Modulo Addition of the Residues of Two Numbers in the Residue Number System. Cybernetics and Systems Analysis, 2020, 56, 1029-1038.	0.7	7
28	Testing of Code-Based Pseudorandom Number Generators for Post-Quantum Application. , 2020, , .		3
29	New Approach to the Implementation of Post-Quantum Digital Signature Scheme. , 2020, , .		14
30	A NEW APPROACH TO BUILDING A POST-QUANTUM SCHEME OF ELECTRONIC DIGITAL SIGNATURE. Information Systems and Technologies Security, 2020, , 23-30.	0.2	0
31	ENERGY GAIN FROM ERROR-CORRECTING CODING IN CHANNELS WITH GROUPING ERRORS. Acta Polytechnica, 2020, 60, 65-72.	0.6	0
32	Study of storage devices properties for steganographic data hiding in cluster file systems. Radiotekhnika, 2020, , 109-120.	0.1	0
33	Refinement of estimates of the success probability of a double-spend attack on the Blockchain System, Based on the Independent Players Model. Radiotekhnika, 2020, , 25-37.	0.1	0
34	Method of Control of Data which is Presented by Residual Classes. , 2020, , .		2
35	Non-Binary Cryptographic Functions for Symmetric Ciphers. , 2020, , .		1
36	Solving the Shortest Path Problem Using Integer Residual Arithmetic. , 2020, , .		1

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37	The Procedure for Implementing the Operation of Multiplying Two Matrices Using the Residual Number System. , 2020, , .		1
38	Advanced Code-Based Electronic Digital Signature Scheme. , 2020, , .		2
39	Data hiding based on noise-like signal addressing. Radiotekhnika, 2020, , 38-49.	0.1	0
40	Malware Correlation Monitoring in Computer Networks of Promising Smart Grids. , 2019, , .		13
41	Variance Analysis of Networks Traffic for Intrusion Detection in Smart Grids. , 2019, , .		1
42	HEURISTIC METHODS OF GRADIENT SEARCH FOR THE CRYPTOGRAPHIC BOOLEAN FUNCTIONS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 879-899.	0.4	6
43	Generators of Pseudorandom Sequence with Multilevel Function of Correlation. , 2019, , .		4
44	Correction Codes in the System of Residual Classes. , 2019, , .		8
45	The Decentralized Voting Model Using the Hyperledger Platform Paper. , 2019, , .		1
46	Key Generation from Biometric Data of Iris. , 2019, , .		3
47	Formation of Discrete Signals with Special Correlation Properties. , 2019, , .		1
48	Accelerated Method for Calculating the Algebraic Immunity of S-Boxes. , 2019, , .		0
49	Pseudorandom Sequences with Multi-Level Correlation Function for Direct Spectrum Spreading. , 2019, , .		3
50	The Method of Single Errors Correction in the Residue Class. , 2019, , .		10
51	The Method of Raising Numbers, Represented in the System of Residual Classes to an Arbitrary Power of a Natural Number. , 2019, , .		10
52	Code-based Pseudorandom Generator for the Post-Quantum Period. , 2019, , .		1
53	Method of Arithmetic Comparison of Data in the Residue Numeral System. , 2019, , .		1
54	Examples of Usage of Method of Data Errors Correction which are Presented by the Residual Classes. , 2019, , .		3

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55	Performance of Hash Algorithms on GPUs for Use in Blockchain. , 2019, , .		16
56	Soft Decoding Method for Turbo-Productive Codes. , 2019, , .		5
57	The Formulation and Solution of the Task of the Optimum Reservation in the System of Residual Classes. , 2019, , .		9
58	Random S-Boxes Generation Methods for Symmetric Cryptography. , 2019, , .		6
59	Random S-boxes in Symmetric Ciphers. , 2019, , .		0
60	Automated Software Vulnerability Testing Using Deep Learning Methods. , 2019, , .		10
61	Formation of Pseudorandom Sequences with Special Correlation Properties. , 2019, , .		5
62	Information Hiding Using 3D-Printing Technology. , 2019, , .		5
63	Side Channel Attack on a Quantum Random Number Generator. , 2019, , .		2
64	Code-Based Schemes for Post-Quantum Digital Signatures. , 2019, , .		4
65	A Prospective Lightweight Block Cipher for Green IT Engineering. Studies in Systems, Decision and Control, 2019, , 95-112.	1.0	26
66	Lightweight Stream Ciphers for Green IT Engineering. Studies in Systems, Decision and Control, 2019, , 113-137.	1.0	23
67	NIST PQC: CODE-BASED CRYPTOSYSTEMS. Telecommunications and Radio Engineering (English) Tj ETQq1 1 0.784314 rgBT /Overlock	0.4	13
68	EVALUATING THE PACKET TRAFFIC PARAMETER MEASUREMENTS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 489-499.	0.4	2
69	METHODS OF BUILDING GENERAL PARAMETERS AND KEYS FOR NTRU PRIME UKRAINE OF 5TH â€" 7TH LEVELS OF STABILITY. PRODUCT FORM. Telecommunications and Radio Engineering (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overlock	0.4	0
70	3D STEGANOGRAPHY INFORMATION HIDING. Telecommunications and Radio Engineering (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	3
71	STUDYING OF k-DIMENSIONALITY OF THE LILI-128 CIPHER BOOLEAN FUNCTION. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 607-614.	0.4	0
72	COMBINING AND FILTERING FUNCTIONS BASED ON THE NONLINEAR FEEDBACK SHIFT REGISTERS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 853-868.	0.4	6

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73	NONLINEAR FUNCTIONS OF COMPLICATION FOR SYMMETRIC STREAM CIPHERS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 743-458.	0.4	7
74	ON HIDING DATA INTO THE STRUCTURE OF THE FAT FAMILY FILE SYSTEM. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 973-985.	0.4	4
75	ANALYSIS AND STUDYING OF THE PROPERTIES OF ALGEBRAIC GEOMETRIC CODES. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 393-417.	0.4	8
76	MICROWAVE RADIO PHYSICS OF UNCONVENTIONAL SUPERCONDUCTORS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 511-536.	0.4	0
77	Heuristic Methods of Hill Climbing of Cryptographic Boolean Functions. , 2018, , .		8
78	Periodic Properties of Cryptographically Strong Pseudorandom Sequences. , 2018, , .		15
79	Experimental Studies Of The Modern Symmetric Stream Ciphers. , 2018, , .		12
80	New Code Based Fuzzy Extractor for Biometric Cryptography. , 2018, , .		15
81	Mathematical Model for the Probabilistic Minutia Distribution in Biometric Fingerprint Images. , 2018, , .		7
82	Steganographic hiding information in a file system structure. , 2018, , .		0
83	Steganography hiding of information using 3D-printing technologies. , 2018, , .		0
84	Research of cross-platform stream symmetric ciphers implementation. , 2018, , .		16
85	Code-based electronic digital signature. , 2018, , .		19
86	Code-based cryptosystems from NIST PQC. , 2018, , .		17
87	Code-based key encapsulation mechanisms for post-quantum standardization. , 2018, , .		12
88	Evaluation of Algebraic Immunity of modern block ciphers. , 2018, , .		13
89	Strumok keystream generator. , 2018, , .		27
90	Hiding data in the structure of the FAT family file system. , 2018, , .		6

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91	ALGEBRAIC IMMUNITY OF NON-LINEAR BLOCKS OF SYMMETRIC CIPHERS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2018, 77, 309-325.	0.4	14
92	Code-based public-key cryptosystems for the post-quantum period. , 2017, , .		37
93	Construction of cascade codes in the frequency domain. , 2017, , .		26
94	Periodic characteristics of output feedback encryption mode. , 2017, , .		26
95	Analysis of block symmetric algorithms from international standard of lightweight cryptography ISO/IEC 29192-2. , 2017, , .		32
96	The research of modern stream ciphers. , 2017, , .		39
97	Combinatorial properties of block symmetric ciphers key schedule. , 2016, , .		31
98	Strumok stream cipher: Specification and basic properties. , 2016, , .		40
99	THE STATISTICAL ANALYSIS OF A NETWORK TRAFFIC FOR THE INTRUSION DETECTION AND PREVENTION SYSTEMS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and) Tj ETQq1 1 0.784314 rgBT /Overlock 10		
100	DISCRETE SIGNALS WITH MULTI-LEVEL CORRELATION FUNCTION. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2012, 71, 91-98.	0.4	40
101	The Design of Boolean Functions by Modified Hill Climbing Method. , 2009, , .		41
102	Formation of pseudorandom sequences with improved autocorrelation properties. Cybernetics and Systems Analysis, 2007, 43, 1-11.	0.7	50
103	Methods of synthesis of signals with prescribed properties. Cybernetics and Systems Analysis, 2007, 43, 321-326.	0.7	42
104	Asymmetric Code-Theoretical Schemes Constructed with the Use of Algebraic Geometric Codes. Cybernetics and Systems Analysis, 2005, 41, 354-363.	0.7	53
105	STUDIES ON STATISTICAL ANALYSIS AND PERFORMANCE EVALUATION FOR SOME STREAM CIPHERS. International Journal of Computing, 0, , 82-88.	1.5	19
106	EDITORIAL â€œCOMPUTATIONAL ASPECTS OF CRITICAL INFRASTRUCTURES SECURITYâ€; â€œSECURITY AND POST-QUANTUM CRYPTOGRAPHYâ€. International Journal of Computing, 0, , 233-236.	1.5	3