

Предварительный список принятых докладов ИТНТ-2020

ID	Авторы	Название
1	Aleksei Archibasov	Reduction of dimension for multi-scale models
3	Mikhail Balabaev and Vladimir Sobolev	Phase flows geometry of autonomous dynamical models with singular perturbations
5	Mikhail Geraskin	Analysis of the influence of stimulation on wide social groups' behavior based on the Stackelberg game
6	Vladimir Chernov	A new approach to the synthesis of parallel error-free computing systems
8	Дмитрий Зыбин, Ксения Буркова, Андрей Калач and Евгений Говорин	CONCEPTUAL MODEL FOR MULTIDIMENSIONAL PRESENTATION OF EMPIRICAL DATA ON THE STATE OF CRITICAL INFORMATION INFRASTRUCTURE FACILITIES
9	Ekaterina Zguralskaya, Nikolay Ignatev and Maria Markovtseva	Nonlinear transformation of signs and the search for patterns in the data of patients with chronic lymphocytic leukemia
10	Alsu Nurutdinova and Sergei Shalagin	Identification of Markov sequences based on a modified "Forward-Backward" algorithm
11	Safaa Mohammed Ridha Hussein Hussein, Muthana Alboedam and Vasilii Gavrilov	Study the properties of conductivity in two-layer graphene using mathematical modeling
12	Irina Khaimovich, Vladimir Ramzaev and Vadim Chumak	DATA MODELLING FOR ANALYSIS OF READINESS OF MUNICIPAL EDUCATION IN INDUSTRY 5.0
13	Sergey Kharitonov, Safaa Hussein, Ann Frize and Nikolay Kazanskiy	Calculation of the band structure of an array of spherical quantum dots
15	Danil Dayneko, Diana Bakhteeva, Dmitriy Zybin, Vladimir Spirin and Andew Kalach	THE CURRENT STATUS OF SENSITIVE INFORMATION LEAKS THROUGH CLOUD STORAGE
16	Michael Bolotov, Vadim Pechenin, Ekaterina Pechenina and Nikolaj Golev	Digital model of aircraft engine compressor rotor assembly optimization
17	Vladislav Lyubimov and Svetlana Kuznecova	Application of the method of integral manifolds to obtain low-frequency equations of motion of an asymmetric probe in the rarefied atmosphere
18	Alexander Volyar, Mikhail Bretsko, Yana Akimova and Yuriy Egorov	Digital sorting of laser beams by radial number: degenerate and non-degenerate states
19	Vadim Pechenin, Michael Bolotov, Nikolay Ruzanov and Ekaterina Pechenina	Creation neural network models for solving the problems of predicting the products geometric accuracy
20	Татьяна Пластинина	Modeling the formation of non-diffraction parabolic beams
22	Elena Medvedeva, Igor Trubin and Pavel Kasper	The algorithm for vehicle number plate detection
24	Antonina Lozhkina	Kalman filter, methods of mathematical statistics and fractal analysis in the problems of revealing anomalous values of time series
25	Elena Kozlova and Victor Kotlyar	Energy backflow in vortex formed by amplitude zone plate
26	Aleksey Maksimov and Vladislav Sergeyeв	Optimal fusing of video sequence images
27	Anna Denisova, Anna Egorova and Vladislav Sergeyeв	Detection of forest vegetation boundaries using remote sensing data
28	Mukesh Singh Boori, Alexander Kupriyanov, Sarla Choudhary and Komal Choudhary	High Resolution 2019 land cover map of Southeast Asia
30	Vladimir Nozhkin, Mikhail Semenov and Igor Ulshin	A stochastic model of the moisture motion in the atmosphere: two-dimensional case
31	Andrey Ustinov	Peculiarities of the generalized and fractional parabolic beams
32	Nishant Tripathi, Vladimir Pavelyev, Andrei Mezhenin, Sunil Kumar, Mariia Sovetkina, Anastasiia Rymzhina and Vladimir Platonov	Development of infrared radiation sensor for household electronic applications
33	Andrey Tyugashev and Sergei Orlov	Ways of Providing Intelligent Consistent Real-Time Control for Cyber-Technical Systems
34	Igor Rytsarev	Text data analysis using conversion analysis

35	Sergey Vostokin and Irina Bobyleva	Implementation of frequency analysis of Twitter microblogging in a hybrid cloud based on the Binder, Everest platform and the Samara University virtual desktop service
36	Vitalii Dementev, Konstantin Vasiliev and Alexey Belyanchikov	Application of image processing methods in communication systems with OFDM
37	Elena Rostova and Mikhail Geraskin	Model and algorithm for industrial risk- management at the regional level
38	Tatiana Shlyakova	Sound signal analysis using Morlet wavelet
39	Sergey Novikov and Mariya Fedina	On some problems and solutions in frame theory
40	Yana Akimova, Mikhail Bretsko, Yuriy Egorov, Alexander Volyar and Victor Milyukov	Digital sorting of perturbed Laguerre-Gaussian modes by radial index
41	Mikhail Bretsko, Yana Akimova, Yuriy Egorov, Alexander Volyar and Victor Milyukov	Vortex spectrum of perturbed singular beam and informational Shannon entropy
42	Leniza Enikeeva, Marat Enikeev, Valentina Shamshovich and Radik Abutalipov	The gravity search algorithm for determining the optimal kinetic parameters of the reaction of low-temperature steam conversion of C2+ hydrocarbons
43	Ishan Patel and Vladimir Aslanov	Active debris removal using electromagnetic induction
46	Anna Egorova	The effectiveness of image filtering by superpixel representation
47	Yuriy Egorov, Mikhail Bretsko, Yana Akimova and Alexander Volyar	Features of the fine structure of asymmetric TE and TM modes
48	Evgeny Myasnikov	Gradient computation for multispectral image segmentation
49	Sergey Makeev, Vladimir Kuptsov, Vadim Davydov and Valentin Dudkin	The mathematical modeling of spectra of nuclear magnetic resonance signals for investigation of condensed media in express mode
50	Anna Mozhayko, Sergey Manninen and Vadim Davydov	Modeling of physical processes of interaction of ultrasonic wave with metal structures for detection of defects
51	Andrey Mezhenin and Timur Gruzdev	The use of diffractive optical elements for laser cutting of sheet cardboard
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53	Maximilian Khotilin, Alexander Kupriyanov, Natalia Kravtsova and Igor Rytsarev	Classification of objects of natural hyperspectral images
54	Evgeny Sagatov, Samara Mayhoub, Andrei Sukhov and Maksim Baymyashkin	Development of methods and means of counteracting the initial stage of network intrusion
55	Roman Kovalenko, Alexander Tashlinskii and Mikhail Tsaryov	Efficiency of target functions in measuring the time shift of a radio pulse based on stochastic adaptation
57	Oleg Osipov, Dmitry Mishin, Dmitry Panin and Igor Matveev	Investigation of the reflection of plane optical waves from an inhomogeneous nonreciprocal chiral media
58	Vladislav Myasnikov and Alexander Verichev	Image Inpainting as a Quadratic Programming Task
59	Alina Bavrina, Vladislav Myasnikov and Ruslan Yuzkiv	Parameterizable LSB watermarking method with adaptive key generation
60	Yulia Ganeeva and Evgeniy Myasnikov	Iris segmentation in an image using a convolutional neural network architecture U-Net
61	Mikhail Evseev, Eugene Bashkirov, Ali Othman and Anna Gorchakova-Zakatova	Entanglement in two-atom Jaynes-Cummings model with Kerr nonlinearity
62	Vladimir Chernov	Discrete orthogonal transforms with self-similar basis functions
64	Maria Buzaeva, Irina Makarova and Vyacheslav Sergeev	Dispersion systems with multi-walled carbon nanotubes in a polymer binder
65	Valeriia Guryanova	Transfer Learning for tuberculosis screening by single-channel ECG
66	Alnajjar Khaled and Igor Anikin	Secure gamma generation for stream cipher based on fuzzy logic
69	Alexey Zheleпов and Nadezhda Yarushkina	IT specialists search algorithm based on repositories
70	Александр Горохов	Coherent states and control of molecular dynamics
71	Anna Denisova and Alexander Belov	Super-resolution reconstruction of remote sensing image using multi-temporal images with partial scene distortions
73	Mikhail Gashnikov	Adaptation of parameterized interpolation algorithms of multidimensional signals for hierarchical and interpolation compression methods

74	Yuliya Vybornova and Aleksey Maksimov	A comparative study of restoration techniques for images defined by chaotically scattered point set
75	Sergey Lishaev	Investigation of iterative calculation of diffraction-free beams with a given distribution
76	Evgeny Monin	Comparative study of propagation of Gauss-Laguerre beams and circular Airy beams in a parabolic fiber
77	Artem Antonov	Approach for finding amplitude of the transmitted diffraction orders in the framework of a rigorous coupled-wave analysis
80	Aleksey Maksimov and Mikhail Gashnikov	Differential method of multidimensional signals compression based on the adapted parameterized interpolation algorithm
81	Stanislav Sergunin and Станислав Краснов	Focusing of pulsed laser linearly polarized Gaussian beams using refractive microaxicons
82	Ilya Rodin	Modeling and researching of propagation of Airy and Pearcey beams
83	Dmitriy Borisov, Aleksandr Blagov and Aleksey Inyushkin	Development of tools for processing and analysis of observational data on the activity of laboratory rats
84	Yuliya Podgornova and Sultan Sadykov	Increasing the contrast of mammograms containing breast cancer regions on the background of fat involution using wavelet transformations
85	Boris Likhttcinder	Adaptive data compression algorithm in wireless sensor networksI
86	Alena Sludnova, Vadim Shutko, Andrey Gaidel and Artem Nikonorov	Natural language processing methods for radiological reports classification
87	Innokentiy Semushin and Yulia Tsyganova	State measuring set (data transferring channel) identification for stochastic and uncertain environments
89	Elena Shvareva, Leniza Enikeeva and Laysan Gabdrakhmanova	The use of the harmony search method in chemical kinetics problems: a literature review
90	Marina Murtazina and Tatiana Avdeenko	The ontology-driven approach to intelligent support of requirements engineering in agile software development
92	Evgeni Bezus, Dmitry Bykov and Leonid Doskolovich	Integrated spectral filters consisting of several dielectric ridges on the surface of a slab waveguide
93	Anton Doroshin	Conditions of implementing dynamical regimes with strange chaotic attractors in attitude dynamics of multi-rotor spacecraft
94	Anatoly Novikov and Anton Pronkin	Method and program for detecting borders of brightness difference
96	Al'bina Ismagilova, Zulfiya Khamidullina and Semen Spivak	Decomposing a complex chemical reaction for determining parametric functions kinetic constants
97	Nikita Davydov, Alexander Khramov and Artem Nikonorov	Functional MRI recurrent real-time quality assessment estimation using OpenNFT
98	Dmitry Ulyanov and Dmitry Savelyev	The investigation of the using the cyclic generative-competitive neural networks for image stylization
100	Anna Grevtseva and Vadim Davydov	A method for increasing the speed of processing the results of measurements of the parameters of a quantum frequency standard to increase the speed of information transfer in satellite communication systems
102	Radik Magdeev and Aleksandr Tashlinskii	Efficiency of pseudo-gradient identification of similar shape objects in binary and grayscale images
103	Leonid Korolev	Estimation of dynamically changing navigation parameters of the group of autonomous vehicles
104	Natalia Firstova	Threshold phenomena in the electrochemical reaction under the influence of random perturbations
105	Gregory Pchelkin, Varvara Fadeenko and Vadim Davydov	Multifunctional fiber-optic system for transmitting microwave signals in the frequency range from 0.135 to 40 GHz
106	Boris Kryzhanovsky and Leonid Litinskii	The spectral density for Ising Model on hypercubic lattice
107	Hanh Hong Mai	The influence of precursor concentration on the crystallinity and morphology of ZnO nanorods grown on printed circuit board substrate
108	Thinh Tran Le and Hanh Hong Mai	Optical sensor based smartphone for environmental applications
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110	Pavel Khorin	The formation of diffraction-free beams with a given distribution based on the Whittaker integral

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113	Dmitry Savelyev	Investigation of the cylindrically polarized beams focusing by a diffractive axicon using high-performance computer systems
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117	Nikolay Glumov and Mikhail Gashnikov	Algorithm for optimizing quantization scales by an arbitrary quality measure
119	Svetlana Novikova, Pavel Tutubalin, Alexander Snegurenko and Ruzilya Yakhina	The optimal aircraft gas turbine engine control in low gas mode in the conditions of external additive noise
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124	Victor Fedoseev	Key information restoration in images after artificial changes based on digital watermarking
125	Evgeny Myasnikov	Hyperspectral data dimensionality reduction using nonlinear autoencoders
126	Vadim Moshkin, Ilya Andreev, Vladimir Belov, Dmitry Drozdov and Roman Shakurov	An integrated approach to mapping user profiles on social networks
127	Vadim Moshkin, Ilya Andreev and Nadezhda Yarushkina	The sentiment-analysis algorithm of social networks text resources based on ontology
128	Vadim Moshkin, Albina Koval and Anton Zarubin	Ontology-based classification model of text resources of an electronic archive
129	Alexander Hodakov, Vyacheslav Sergeev and Alexander Kulikov	Modeling of thermoelectric processes in a powerful microwave MOSFET with a structural defect
130	Eldar Miftakhov, Svetlana Mustafina and Tatiana Mikhailova	Investigation of the effect of continuous operation of the polymerization process in the presence of Ziegler-Natta catalysts on the molecular characteristics of the product
131	Michael Bolotov, Vadim Pechenin, Nikolay Ruzanov and Iliya Grachev	Methods for determining the location parameters of GTE blade profiles based on the results of their measurements
132	Vladislav Butorov and Marina Chicheva	Research of lossy image compression algorithm based on fractal discrete cosine transform
134	Alexey Olshansky, Yefim Rozenberg, Alexander Ignatenkov, Ignat Dovgerd, Gleb Dovgerd and Paul Ignatenkov	Some approaches of improving the quality of artificial neural networks training
135	Alexander Yumaganov	Searching for similar code sequences in executable files using siamese neural network
136	Yulia Agafonova, Andrey Gaidel, Pavel Zelter and Aleksandr Kapishnikov	Convolutional neural network for detection of pathological changes in MR images of the brain
137	Valentin But, Sergey Karpeev and Egor Karlin	Development and investigation of micro- and nanostructures of metamaterials to form the necessary characteristics and coefficients of piezoelements
138	Arina Enikeeva and Ruslan Pikalov	The influence of climber motion on the dynamics of the orbital space elevator
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141	Mikhail Gashnikov	Adaptive interpolation for heterogeneous multidimensional signals fusion
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145	Alisa Makhmutova, Igor Anikin, Rifkat Minnikhanov, Tikhon Bolshakov, Maria Dagaeva and Kamil Mingulov	Detection of traffic anomalies for a safety system of smart city
147	Alexey Pyataev, Anna Pyataeva and Ruslan Brezhnev	Pine crown density determination using local binary patterns
148	Aleksei Gladkii and Danila Shkirdov	IoT honeypot design for attack strategies analysis
149	Ilya Kuznecov, Anton Kuznecov, Igor Baclanov and Oleg Strashko	A probabilistic model of search and detection of ground targets using unmanned aerial vehicles in terms of irregular influences in the external environment

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154	Gulshat Mannanova and Gulshan Bikbova	Development of a 16-component kinetic model of catalytic cracking and solution of the inverse problem of kinetics on its basis
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158	Aleksandr Shirokanev, Nikita Demin, Nataly Ilyasova, Rustam Paringer and Andrey Zolotarev	Decision Tree Application for Fundus Image Segmentation
159	Nikita Demin, Nataly Ilyasova, Aleksandr Shirokanev and Evgeniy Zamyckij	Segmentation of OCT images for localizing of diabetic macular edema
161	Diana Zigangirova and Svetlana Mustafina	Algorithms of direct simulation of chemical reaction under conditions of uncertainty of initial data
163	Evgenia Antipina, Svetlana Mustafina, Andrey Antipin and Sofia Mustafina	Solving the problem of planning a chemical experiment based on genetic algorithms
164	Olga Belova, Natalia Vlasova, Ludmila Kavelenova, Eugene Korchikov, Victor Fedoseev, Tatiana Chap and Anna Denisova	Monitoring of the recreation effects on land cover with the use of an unmanned aerial vehicle on the example of the Strel'naya mountain in Samara region
165	Victor Kotlyar, Alexey Kovalev and Darya Kalinkina	Spin angular momentum and energy flow density in the sharp focus of a light field with an optical vortex and polarization singularity on the optical axis
168	Constantine Alexeyev, Elena Barshak, Dmitriy Vikulin, Boris Lapin and Maxim Yavorsky	Propagation of optical vortices in loop resonators on the basis of multimode optical fibers
170	Olga Kiryanova, Ilya Kiryanov, Bulat Kuluev, Aleksey Chemeris and Liana Akhmetzianova	The method of generation barcode for DNA certification of plants and organisms.
173	M.A Butt, S.A Fomchenkov and H.H Mai	Improving the sensitivity of a metal-insulator-metal semi-ring resonator cavity by embedding nanodots
175	Александр Нечитайло, Ann Gnutova and Olga Vasilchuk	Digital transformation of educational process planning at a university
179	Mikhail Shimelevich, Evgeniy Osbornev, Ivan Osbornev and Evgeniy Rodionov	Approximation-neural network method for solving the nonlinear multicriteria inverse problem of geophysics
180	Victor Kotlyar and Alexey Kovalev	Topological charge of Gaussian vortex light fields and their superpositions
181	Sergey Fomchenkov	Development and research of a linearly changing narrow bandpass optical filter for hyperspectral equipment
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193	Lyudmila Kopeykina and Andrey V. Savchenko	Personal data detection in photo album based on face clustering and text classification of scanned documents
195	Aleksandr Borodinov and Vladislav Myasnikov	Pairwise comparisons in finding user preferences
196	Elena Basan and Alexander Basan	The Problem of Assessing Information Security Risks for Robotic Systems: A Literature Review and Methodology of Estimating Initial Protection
197	Mikhail Leontev, Alexander Miheev, Kirill Sviatov and Sergey Sukhov	Quality metrics of variational autoencoders

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202	Vladimir Podlipnov and Dmitriy Nesterenko	Optical characteristics of CdTe thin films doped with chromium in the visible and infrared ranges
203	Elena Shchepakina and Elena Tropkina	Birth cycle bifurcation in a model of oncolytic virus therapy
204	Natalia Rodionova, Irina Vakhnina and Tatiana Zhelibo	Assessment of vegetation state post-fire dynamics on the territory of Ivano-Arakhleisk natural Park (Zabaikalsky Krai) by Sentinel 1/2 radar and optical data
205	Vladimir Podlipnov and Sergey Karpeev	Spatial light modulator for creating vector beams
206	Pavel Mokshin, Sergey Kharitonov and Svetlana Khonina	The operation modeling of spectral filters of the THz range using vector Bessel beams
207	Vladimir Podlipnov, Sergey Karpeev and Vyacheslav Paranin	Film sector optical element for creating inhomogeneous polarizations with phase correction of higher orders.
208	Andrey Konstantinov	An approach to the formation of a training sample for assessing the emotional coloring of social network posts using machine learning
210	Alina Bavrina, Ludmila Kavelenova, Oksana Kuzovenko and Nataly Prokhorova	Detection and age estimation of burned areas of natural grassy communities in the Samara region using Sentinel-2 data
211	Liana Safiullina, Regina Mugalimova, Ravil' Zaynullin and Arslan Akhmetov	The study of the sensitivity of the kinetic parameters of catalytic reforming of gasoline
213	Yuri Kovalev, Sergey Eremeev and Dmitriy Andrianov	Algorithm for matching objects based on three-dimensional barcodes
214	Mikhail Semenov, Peter Meleshenko, Olga Reshetova and Andrey Solovyov	Synchronization in the system of coupled van der Pol oscillators under hysteretic bonds: an analytic approach within the small parameter method
215	Anton Agafonov, Aleksey Maksimov and Aleksandr Borodinov	Performance comparison of GPU parallelization algorithms for the reliable shortest path problem
216	Anton Agafonov and Александр Юмаганов	Traffic flow prediction using graph neural networks
217	Anton Agafonov and Alexander Yumaganov	A comparison of 3D objects detection methods for an autonomous car driving problem
218	Yuliya Vybornova	Method for construction of highly robust watermarks in the task of copyright protection for digital images
219	Vladimir Khvesyuk and Bin Liu	Advanced Acoustic Mismatch Model for Kapitza Conductance Calculation
220	Lijun Zhang	Traveling wave of a class of higher-order nonlinear wave equations
221	Vladimir Khvesyuk and Wenpei Qiao	The study of phonon diffusion using the Monte Carlo simulation taking into account the laws of conservation of energy and quasimomentum
222	Vladimir Khvesyuk and Alexander Barinov	Analysis of factors affecting the heat transfer regime in semiconductor structures
226	Artem Mukhin, Igor Kilbas, Rustam Paringer and Nataly Ilyasova	Application of the gradient descent for data balancing in diagnostic image analysis problems
227	Diana Dmitrieva, Valeria Pilipova, Elena Andreeva, Vadim Davydov and Valentin Dudkin	The method for determining of negative exposure to γ - radiation on fiber-optic information transmission systems
228	Nickolay Shlyankin and Andrey Gaidel	Application of the Hidden Markov Model for determining PQRST complexes in electrocardiograms
229	Leonid Lebedev	Geometric aspects of the correlation-extreme methods of object recognition and compression of GSI
230	Dmitry V. Nesterenko, Roman A. Pavelkin, Shinji Hayashi and Victor Soifer	Asymmetric resonances and field enhancement of hybrid plasmon-waveguide modes in CdTe structures
231	Vitaliia Sviatkina, Vasiliy Rud and Vadim Davydov	Use of spectral analysis to control the distribution of energy of electromagnetic waves at radar station tracks
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233	Alexey Zhelepov and Nadezhda Yarushkina	Data balance problem for self-driving cars
235	Ekaterina Galitskaya and Viktor Krashenninikov	Ways to increase the probability of correct recognition of noisy speech commands by their cross-correlation portraits
236	Alexandra Savelyeva and Elena Kozlova	Simulation of light focusing by microspheres
237	Vladislav Zaitsev and Sergey Stafeev	The formation of an array of photonic nanostructures with square profile steps.

238	Elena Kozlova and Victor Kotlyar	Simulation of plasmons vortex on metal nano-ring
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240	Alexey Porfirev and Anna Dubman	Advanced photophoresis-based laser trapping in air
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246	Sergey Stafeev and Victor Kotlyar	Behaviour of transverse Poynting vector components in the vicinity of tight focus
247	Denis Yablokov, Vladimir Pavelyev, Andrey Agafonov and Anatolii Eremin	Computer optics software construction using multi-paradigm design
248	Hanh Hong Mai	NEW CONSTRUCTION DESIGN OF A FLUORESCENT IMAGING FILTER SET BASED ON TiO ₂ /SiO ₂
249	Linar Ahmetov	The formation of polymorphic beams with diffraction-free properties
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254	Alexey Ruchay, Konstantin Dorofeev, Vsevolod Kalschikov and Anastasya Kober	Accuracy analysis of surface reconstruction from point clouds
255	Alexey Dzyuba, Sergey Popov and Pavel Serafimovich	Phase apodization of imaging system in separate color channels for extending depth of field
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258	Eugene Bukhanov, Yuru Gurevich and Dmitry Shabanov	Modeling an optical properties of plant epicuticular wax
259	Vitalii Dementev and Artem Artemev	Generative deep Gaussian processes
261	Fikret Mirzade and Rinad Seidgazov	Combined effects of surface elasticity and strain gradient on the instability of laser-excited films with nanoscale thickness
262	Anastasiya Alekseeva, Irina Karpunina and Vladimir Klyachkin	Analysis of the stability of the hydraulic unit according to the results of vibration monitoring
263	Andrei Pavelev and Vitalii Semin	Application of stochastic calculus for some classes of quantum models
266	Dmitrij Belousov	Анализ упорядоченности и дефектности структур ТЛИППС сформированных на тонких плёнках Hf астигматическим гауссовым пучком
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271	Konstantin Dobratulin, Andrey Gaidel, Irina Aupova, Anna Ivleva, Aleksandr Kapishnikov and Pavel Zelter	The efficiency of deep learning algorithms for detecting anatomical reference points on radiological images of the head profile
272	Yuliya Kuvayskova, Victor Krasheninnikov, Vladimir Klyachkin and Anastasia Alekseeva	Fuzzy models for predicting the technical state of objects
273	Alexandr Rud, Sergey Rud, Michael Isaev and Dmitry Savelyev	The using convolutional neural networks for determine the age of a person from an image
275	Konstantin Vytovtov, Elizaveta Barabanova and Vladimir Vishnevskiy	The analytical model of a polyatomic crystal lattice with a continuous potential
276	Alexander Feoktistov and Roman Kostromin	A multi-agent model of allocating resources of a high-performance computing environment in the processing of job flows
277	Lenar Faizullin and Ruslan Pikalov	The influence of the choice of the engagement point of the tether on the process of towing the space debris
278	Nina Vinogradova, Andrey Sosnovsky and Natalya Sevostyanova	Automatic recognition of the number of channels in unidentified multispectral data

279	Alexandra Makarova, Mikhail Kurbakov and Valentina Sulimova	Mean Decision Rule method for constructing nonlinear boundaries in solving large two-class SVM problems
280	Maksim Baranov and Tristan Malleville	Determination of the structures contours parameters in biological films for the development of the cuneiform dehydration method
281	Nina Vinogradova and Leonid Dorosinsky	Research of algorithms for detecting small changes over the data of a radar image of the Earth from space
283	Vladimir Jordan, Igor Shmakov and Angelica Grigoryevskaya	Software implementation of the 3D-simulation procedure of SHS macrokinetics in the Ni-Al porous model medium with the closest packing of “mesocells”
284	Vladimir Pavelyev	THz/Far-IR Diffractive Optics: Methods, Applications, Perspectives
285	Alexey Kovalenko and Yana Demyanenko	Neural network confidence model
287	Aleksey Utkin, Albert Gareev and Asgat Gimadiev	Diagnostic method of a coil heat exchanger efficiency based on thermal and hydrodynamic processes modelling
288	Nina Vinogradova, Andrey Sosnovsky and Stepan Egorov	Analysis of the accuracy of determining the vegetation edges according to the Landsat remote sensing data over the territory of the Sverdlovsk region
289	Nikita Svyatov and Alexander Blagov	Forecasting the currency market using the autoregressive-moving average model
291	Mikhail Lange and Andrey Lange	On data classification efficiency based on a trade-off relation between mutual information and error probability
292	Boris Belyaev, Sergey Khodenkov, Natalya Shepeta and Dmitry Malyshev	The investigation of ultra-wideband filter 3D model based on microstrip multimode resonators
293	Angelica Grigoryevskaya, Pavel Gulyaev, Vladimir Jordan and Igor Shmakov	Spin instability criteria based on parametric identification of the node distribution in Trace transform direct image of the SHS combustion wave chronogram
296	Igor Kilbas and Rustam Paringer	Gradient as a foundation for building a loss function
297	Vadim Zinatullin and Sergey Koledin	Analysis of work scientists directions based on the processing of natural language texts
299	Anna Vovdenko, Mikhail Vovdenko, Kamila Koledina, Alfiya Bayguzina and Ravil Khusnutdinov	Modeling of the catalytic of benzyl and butyl alcohols etherification
300	Sergey Koledin, Edgar Zubaerov, Evgenii Kislicin, Vladislav Aptikaev and Ruslan Almakaev	Parallelizing a solution of multi-purpose optimization problem for the conditions of a chemical reaction based on CUDA technology
301	Robert Bielak, Serguei Murzin, Gerhard Liedl, Andreas Otto and Nikolay Kazanskiy	Modeling of temperature fields in DP1000 steel during laser treatment using diffractive optical elements
304	Andrey Kuznetsov	On deep learning approach in remote sensing data forgery detection
305	Anastasia Kuvshinova, Andrey Tsyganov, Yulia Tsyganova and Hugo Ricardo Tapia Garza	Algorithm for numerical identification of parameters for convective-diffusion transport model
306	Kamila Fatkhutdinova, Alexey Vulfin, Vladimir Vasilyev, Andrey Nikonov and Anastasiya Kirillova	Intelligent emotion recognition system in neural network basis
307	Valentina Burmistrova, Alexander Butov, Maksim Volkov, Mariya Gavrilova, Sergey Hrustalev, Boris Kostishko and Alexander Shabalin	Methods of researching processes with various types of compensation of the change-point
308	Andrey Kuznetsov and Artem Lanin	Splicing detection based on improved FISH descriptors
309	Arina Startcseva, Alexey Vulfin, Vladimir Vasilyev, Andrey Nikonov and Anastasiya Kirillova	Bank transaction text label mining algorithms
310	Marina Nikitina	Structural-parametric Model of Healthy Diet
314	Nikita Andriyanov and Danila Andriyanov	The importance of data augmentation in machine learning for image processing tasks in the face of data scarcity
315	Olga Malenova, Victor Krashennnikov, Alexey Subbotin and Yuliya Kuvayskova	Pseudo-gradient algorithms for forecasting and filtering cylindrical images
316	Ilnur Akhmetov	Information system for modeling chemical-technological processes based on chemical kinetics
319	Sergei Sazhin	Mathematical and engineering modelling of sprays

320	Nikita Andriyanov	Using neural networks to identify parameters of autoregression model with multiple roots of characteristic equations
321	Dmitry Rodin, Marina Rodina, Alexey Telegin and Igor Piyakov	Simulation of a dust impact time-of-flight dust particle sensor
322	Elizaveta Rudinskaya and Rustam Paringer	Study of a face detection accuracy based on race and gender using Haar cascades
323	Anastasia Shatskaya and Dmitry Artemyev	Human skin model for spatially-resolved fluorescence registration using different fiber optic system configuration
324	Roland Fuerbacher, Gerhard Liedl and Serguei Murzin	Investigations on the spatial frequency transition of Laser induced periodic surface structures
325	Radik Magdeev, Marat Suetin and Aleksandr Tashlinskiï	Improving the efficiency of the method of stochastic gradient identification of objects in binary and grayscale images due to their pre-processing
327	Nikita Andriyanov and Danila Andriyanov	Modeling and processing of SAR images
328	Ekaterina Kurbatova	Road detection in aerial images based on color information and geometry features
330	Stanislav Abulkhanov, Ivan Bayrikov, Dmitriy Goryainov and Oleg Slesarev	Titanium cellular implant to replace bone defects in the jaw
331	Rinat Diyazitdinov	Iterative algorithm of optical triangulation sensors signals superposition for measuring solid deformation
332	Nikita Andriyanov	Comparative analysis of football statistics data clustering algorithms based on deep learning and Gaussian mixture model
334	Basim Salem and Vladimir Solodovnikov	Data visualization and clustering in the task of system analysis of the patients examination results in the initial stages of cognitive impairment
335	Van Vinh Dang, Nataliya Dodonova, Mikhail Dodonov and Svetlana Korabelshchikova	Some applications of binary lunar arithmetic
336	Vladimir Geppener and Bogdana Mandrikova	Анализ вариаций космических лучей по данным мировой сети нейтронных мониторов
337	Nikita Morunov and Dimitry Golovashkin	Performing of the FDTD method calculations on Supercomputer "Sergey Korolev" GPUs via MATLAB language
338	Mariia Zablovskaia	Transformation of light beams using waveguides
340	Larisa Stepanova and Ekaterina Mironova	Asymptotic crack tip fields in non-linear materials
341	Fedor Sidorov and Alexander Rogozhin	New microscopic approach to e-beam lithography processes simulation.
342	Mikhail Evseev and Eugene Bashkirov	Dynamics of entanglement of two superconducting qubits nonresonantly interacting with two independent resonators
343	Vitalii Dementev and Alexander Tashlinskiï	The use of stochastic parameter identification in the separation of mixtures of correlated deep Gaussian models
344	Vladimir Aslanov and Dmitry Sizov	Chaotic motion of 3U Cubesat with deployable side panels
346	Aleksandr Kolpakov, Yuriy Kropotov and Alexey Belov	Investigation of the RAM access model in a heterogeneous computing system
347	Alexey Magazev and Valeriya Tsyruunik	On small perturbations of Markov cyber threat models
349	Nikolay Ivliev and Vladimir Podlipnov	Investigation of the interaction of vortex beams with a microrelief on the carbazolecontaining azopolymer
350	Ilya Smirnov, Igor Rytsarev, Alexander Kupriyanov and Dmitriy Kirsh	Development of algorithms for annotating information in social networks
352	Serguei Murzin, Andrey Tisarev and Maksim Blokhin	Calculation of thermal processes during laser treatment of dual phase steel using element of diffractive computer optics
353	Anton Kornilov, Iliia Safonov and Ivan Yakimchuk	Ring artifacts segmentation on microtomographic images by convolutional neural networks
355	Sergey Rylov	High-dimensional grid-based clustering for multispectral satellite image segmentation
357	Konstantin Kiy and Roman Dosaev	Global image analysis: detection and recognition of basic informative elements of road scenes
358	Elena Klimanova and Alexander Maksimov	Classification of multidimensional element types in automatic regulation systems
360	Oksana Mandrikova and Nadezhda Fetisova	An automated method for detecting ionospheric disturbances
362	Dmitry V. Nesterenko, Shinji Hayashi and Victor Soifer	Approximation of Fabry-Pérot resonances in metal/dielectric/metal structures

363	Renata Tolmacheva, Yury Obukhov and Ludmila Zhavoronkova	Monitoring of inter-channel EEG phase synchronization in patients with traumatic brain injury before and after rehabilitation
365	Sergey Makhortov and Ilya Ivanov	Based on Distributive Lattice Reasoning Model in Production Zero-Order Logic
366	Anastasia Peksheva and Larisa Stepanova	Asymptotic methods for solving a nonlinear eigenvalue problems
367	Daria Rogach	About the stability of measurable vectors
368	Anton Krents, Nonna Molevich and Liza Yarusova	Optical extreme events in laser with optoelectronic feedback
369	Boris Likhttcinder	Delays in QS queues with correlated application flows
370	Daria Makienko, Ilya Seleznev and Ilia Safonov	The effect of the imbalanced training dataset on the quality of classification of lithotypes via whole core photos
372	Valeriy Ermolaev, Yuriy Kropotov and Alexander Proskuryakov	Modeling of neural systems and networks by functional differential equations
373	Mikhail Elantcev, Igor Arkhipov and Renat Gafarov	The modified method of statistical differentiation for the matching of aerial photograph and satellite imagea
375	Alexander Grebeshkov and Sergey Gorshkov	Ontology based geodata enrichment method
376	Konstantin Trubitsyn, Galina Mikheeva, Ruslan Klebleev and Olga Kurganova	Additional boundary conditions in heat conduction problems for multilayer structures
377	Konstantin Trubitsyn, Ruslan Klebleev, Galina Mikheeva and Ekaterina Stefanyuk	Identification of heat exchange coefficient in heat conductivity problems with asymmetric boundary conditions
379	Olga Sushkova, Alexei Morozov, Alexandra Gabova and Alexei Karabanov	Development of a method for early and differential diagnosis of Parkinson's disease and essential tremor based on analysis of wave train electrical activity of muscles
380	Sergey Gorsky, Roman Kostromin, Alexander Feoktistov and Igor Bychkov	Toolkit for supporting high-performance computing in subject-oriented heterogeneous environments
381	Evgeniy Minaev	High performance implementation of machine learning method based on fractal compression
382	Elena Kadomina, Evgeni Bezus and Leonid Doskolovich	Parasitic scattering of Bloch surface waves
385	Constantin Losmanschii, Elena Achimova, Alexei Meshalkin, Vladimir Abashkin and Alexandr Prisacar	Comparative characteristics of azopolymers: synthesis, optical and recording properties
386	Dmitry Bykov, Evgeni Bezus, Linyong Qian and Leonid Doskolovich	Optical properties of resonant gratings with slowly varying period
387	Albert Gareev, Evgeniy Minaev, Dmitriy Stadnik, Vladimir Protsenko, Ilia Popelniuk, Ashat Gimadiev and Artem Nikonorov	Investigation of the effectiveness of neural network algorithms for the faults detection in hydraulic systems
388	Alexey Borisov and Evgeny Myasnikov	Implementation of "Magma" and "Kuznyechik" ciphers using HIP
390	Elina Nepomnyashchaya and Olga Ponomareva	Method of polarization-based visualization for skin health analysis
391	Alexey Borisov and Evgeny Myasnikov	Dimensionality reduction using the GPU-accelerated gradient descent
392	Ekaterina Savchenko, Ekaterina Vachugova, Elena Velichko and Elina Nepomnyashchaya	Investigation of the fullereneol solution parameters by combined technique based on light scattering
393	Olga Gubareva, Vladimir Burdin, Vladimir Gureev and Sergej Masyuk	Simulation of data transmission in a simplex acousto-optical channel over a two-mode optical fiber
394	Dmitriy Dudnik and Sergey Sharangovich	Diffraction of quasimonochromatic light beams on multilayer inhomogeneous photopolymer holographic diffraction structures
396	Irina Palchikova, Igor Latyshov, Evgenii Smirnov, Alexander Kondakov and Vasily Vasiliev	Analysis of the shot target using computer vision
397	Vladimir Panishchev and Sergey Poltoratskiy	Hardware-oriented algorithm for extracting periodic sequence of digital signals
398	Elena Medvedeva and Elizaveta Varko	Image segmentation based on RGBD data
399	Olga Kuznetsova and Michael Geraskin	Analysis of monopolistic competition in markets related to the sale of goods on credit.

401	Anastasia Kushkoeva, Elena Gorbunova, Alexander Chertov and Sergey Veselov	The results of the study of the opportunity of replacing the GIA GemSet, designed to assess the color of precious stones, with digital imitation measures for automated control systems
402	Veronica Cazac	Improved 3D imaging of phase shifting digital holographic microscope by compensation for wavefront distortion
404	Lyudmila Bratchenko, Ekaterina Abrosimova, Sergey Stafeev, Elena Tupikova, Ekaterina Borisova and Ivan Bratchenko	Conventional Raman and surface-enhanced Raman spectroscopy for human skin components analysis
405	Irina Gndoyan, Alexey Petraevytsky, Victor Fedoseev and Maria Denisenko	The using of digital technology to quantify the results of non-invasive application fluorescein angiography of the anterior eye segment.
406	Sergey Zraenko	Increasing the distinctiveness of forest species composition by satellite images
407	Andrey Agafonov, Anton Reshetnikov, Ivan Tzibizov and Alexey Shakhmin	The technology of manufacturing metal-dielectric photonic crystals for THz and millimeter-wave ranges by 3D printing
409	Igor Genrikhov and Elena Djukova	Finding frequent elements for a product of partial orders and association rules
410	Andrey Tsyganov and Yulia Tsyganova	Decentralized measurement data processing based on J-orthogonal transformations in a square-root information Kalman filter
412	Maria Yashina and Vladimir Sobolev	Mathematical modeling as a means of diagnosis of a malignant tumor
414	Yaroslav Metelkin, Yuliya Khitskova and Katerina Makoviy	Solving the problem of load prediction in data centers
416	Tatiana Kureneva, Andrey Tsyganov, Yulia Tsyganova and Natalia Volkova	Square-root covariance filtering algorithm for discrete-time systems with multiplicative noises
420	Elena Barshak, Constantine Alexeyev, Dmitriy Vikulin, Boris Lapin and Maxim Yavorsky	Structure and spectrum of modes with azimuthal number $l > 1$ in twisted anisotropic optical fibers
421	Vadim Turlapov and Pavel Pahomov	Investigation of correlation of empirical modes and low-frequency residues of hyperspectral image signatures
422	Ksenia Telnova and Elena Shchepakina	Bifurcation in a dynamical model of the spread of tuberculosis with local and individual contacts
424	Irina Matveeva, Oleg Myakinin and Yulia Khristoforova	Monte Carlo simulation of Raman light scattering in a human skin
425	Maria Osipchuk and Elena Shchepakina	Phenomenon of delay of stability loss in a dynamical model of autocatalytic reaction
427	Aleksey Golubkov, Andrey Tsyganov and Igor Petrishchev	Detection of changes in the motion mode of an object moving along a complex trajectory
428	Dmitry Murashov	Application of an information model for selecting parameters of image segmentation algorithms
430	Andrey Sosnovsky and Viktor Kobernichenko	Method of investigation of absolute phase recovery accuracy in InSAR data processing
431	Rail Gabbasov and Rustam Paringer	Influence of the receptive field size on accuracy and performance of a convolutional neural network
434	Vladimir Mokshin and Dinar Yakupov	Graphs decomposition using modified spectral clustering method
435	Serguei Murzin, Nikolay Kazanskiy, Gerhard Liedl, Robert Bielak, Alexey Melnikov and Stanislav Osipov	Study of structure of dual phase steel after laser heat treatment using moving distributed surface heat sources
436	Vladimir Mokshin, Nikita Stadnik, Daria Maryasha, Alexander Zolotukhin and Leonid Sharnin	Modified genetic algorithm as a new approach for solving the problem of three-dimensional packing.
437	Viktar Beliautsov, Alexandra Fedorova, Mikita Syrovatnikau and Vladimir Mokshin	Quadcopter control system with variable thrust vectors
438	Lubov Shiripova, Olga Strukova and Evgeny Myasnikov	Study of classification techniques for PCA-based human action recognition
439	Vladislav Dudnikov and Boris Melnikov	An approach to transforming DNA distance matrices in order to improve the original distance calculation algorithms
442	Vladimir Pavelyev, Svetlana Khonina, Konstantin Tukmakov, Sergey Degtyarev,	Silicon subwavelength axicons for terahertz beam polarization transformation

	Anton Reshetnikov, Boris Knyazev and Yulia Choporova	
443	Konstantin Serdyukov and Tatyana Avdeenko	Researching of methods for assessing the complexity of program code when generating input test data
448	Vadim Turlapov, Tamara Utesheva and Konstantin Pukhky	The task of detecting the boundaries of hyperspectral image objects
449	Bogdan Sokolenko, Nataliya Shostka and Dmitry Poletaev	Digital holographic microscopy of optically trapped microparticles with using of "bottle" beam optical tweezers
450	Dmitrii Poletaev and Bohdan Sokolenko	Paintings' authentication by speckle interferometry
451	Dmitry Murashov, Yury Obukhov, Ivan Kershner and Mikhail Sinkin	Algorithm for identifying artefact events based on the analysis of video EEG data for monitoring patients with craniocerebral injuries
452	Yulia A. Khristoforova, Ivan A. Bratchenko, Ekaterina G. Borisova, Lyudmila A. Bratchenko, Tsanislava I. Genova, Alexander I. Gisbrecht, Alexander A. Moryatov, Sergey V. Kozlov, Petranka P. Troyanova and Valery P. Zakharov	The study of ex vivo and in vivo melanocytic skin neoplasms using near-infrared fluorescence spectroscopy
455	Dmitriy Ivanov and Aleksandr Zhdanov	Numerically stable algorithm for identification of linear dynamical systems by extended instrumental variables
456	Sergey Kostin and Andrey Gaidel	Predicting exchange rate dynamics in the forex market using machine learning
458	Maria Pavlova, Alexey Savchik, Lev Teplyakov, Mikhail Zagarev, Igor Kukoev and Anton Grigoryev	Agricultural parcel localization on satellite images using U-Net-based neural network
459	Andrey Dmitriev, Ilnur Madyshev, Aliya Khafizova and Andrey Nikolaev	Study of hydrodynamics in counterflow cooling tower with corrugated contact elements
461	Valery Zasov	Algorithm for verification the stability of signal separation for objects with changing characteristics
463	Dimitry Golovashkin, David Kalachian and Liudmila Yablokova	Investigation of the possibility of constructing a block algorithm of the BPM method
464	Pavel Ostapenko, Kamila Sultantemirova and Oleg Saprykin	Adaptive traffic light control based on machine learning
465	Vladimir O. Sokolov	To the 75th anniversary of academician V. A. Sofer
466	V.A. Danilov	60 years of S. G. Volotovskiy
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469	V.O. Sokolov	75 years of prof. V.A. Fursov
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471	Ilya Kolobov, Alexander Korobeynikov and Alexander Lozhkin	The microcircuit images analysis based on convolutional neural network
472	Tatiana Mikhailova, Eldar Miftakhov, Vladimir Mikhailov and Sofia Mustafina	About an algorithm for modeling the isoprene polymerization process in the cascade of reactors using the Monte Carlo method
473	Alexey Chulichkov and Egor Molkov	Increasing the resolution of a non-negative brightness image distorted by a linear transformation
474	Vladimir Mochalov, Yuri Choni, Anatoliy Romanov and Igor Danilov	Investigation of the potential characteristics of a satellite multi-beam hybrid-mirror antenna by modeling the process of adaptation to random deformations of the reflector
476	Denis Kudryashov	Tools for promoting a scientific paper on the example of the journal "Computer Optics"
479	Anton Nalimov, Victor Kotlyar and Sergey Stafeev	Optimizing of Poynting vector and light intensity after secant gradient lens
482	Ildar Badamshin	The thermal conductivity and propagation velocity of oscillations modeling taking in single crystals into account the anisotropy of their properties
486	Sergei Stepanenko and Pavel Yakimov	Development of a cloud platform for gathering, storing and analysis of video data
488	Pavel Katkov and Alexander Khranov	Обнаружение затемнения в лёгких по рентгеновскому DICOM-изображению с использованием нейронных сетей.
490	Анастасия Плиско and Артем Никоноров	Обнаружение аномалий в данных медицинской томографии на основе методов машинного обучения

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494	Dmitry Suslov	Designing a system for detecting objects using hyperspectral images.
495	Igor Lvovich, Andrey Preobrazhenskiy and Oleg Choporov	Research of algorithms for processing information in wireless networks and filling the missing data
496	Azamat Sakhpov and Pavel Yakimov	Service development for vehicles recognition and accounting to the checkpoint
497	Denis Milyakov, Vladimir Verba, Vladimir Merkulov and Andrew Plyashechnik	Two approaches to simulating a group flight of unmanned aerial vehicles as systems with lumped and distributed parameters
498	Anton Romanov and Aleksey Filippov	Approach to data-driven enterprise decision-management
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500	Vladimir Aslanov and Daria Andrievskaia	Delivery of a returned container from the surface of Phobos using electrostatic forces
501	Ekaterina Avdonina and Pavel Yakimov	Research of algorithm of detection of a pose of the person on the image and in a video stream
503	Albert Gareev, Dmitry Stadnik, Artem Nikonov and Asgat Gimadiev	Datasets gathering for hydraulic systems technical diagnosis using machine learning methods
504	Sofiya Ganchevskaya	Investigation of the influence of the number of quantization levels and technological errors on the point scattering function
505	Anton Eremin	Approximate analytical solution of the Graetz problem
506	Aleksandr Borodinov and Vladislav Myasnikov	Analysis of user tracks on public transport
508	Kirill Kazakov	Modeling of the interaction of cylindrical bodies with complex surface properties
510	Irina Zaporotskova, Daniil Radchenko, Lev Kozitov and Natalia Boroznina	Theoretical study of a metal composite based on a monolayer of pyrolyzed polyacrylonitrile containing paired metal atoms Cu-Co, Cu-Ni, Ni-Co, Ni-Fe
511	Alexandr Astafiev, Anton Demidov and Denis Privezentsev	Analysis of the Applicability of the Bundle Method for the Construction of Multi-Code Labelings
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517	Yury Strelkov and Sergey Kharitonov	Оптимизация рельефа бинарной линзы
519	Vladislav Batshev, Milana Sharikova, Alexander Machikhin, Sergey Boritko, Vitold Pozhar, Alexey Kozlov and Anton Karandin	A compact acousto-optical module for hyperspectral imaging systems
521	Vladimir Sobolev	Singular perturbation analysis of critical travelling waves
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527	Yuriy Zabolotnov and Tatyana Ledkova	Modeling and analysis of the motion of the space tethered system in a lunar orbit
529	Ivan Nemtsev, Olga Shabanova, Nikolay Shestakov, Alexander Cherepakhin, Alexander Ivanenko and Victor Zyryanov	Photonic crystal structures based on submicron particles of polymethyl methacrylate
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533	Irina V. Zhilavskaya	The role of the editor-in-chief in the formation and development of the journal
534	Kirill Posoha	Simulation and study of the propagation of aberration beams
535	Ruslan Shimansky and Ruslan Nasyrov	Measuring fabrication errors of computer-generated holograms using embedded microgratings
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549	Natalya Moiseeva	Transformation of a vortex polarized beam in an anisotropic medium
550	Ivan Maslov and Oleg Goriachkin	Restoring the height of the terrain taking into account the statistical relationship of the interferometric pair of radar images
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569	Yurii Mezentsev, Pavel Pavlov and Nina Baranova	Task of controlling the input and output material flows of an industrial enterprise
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575	Leonid Mestetskiy and Andrey Semenov	Measures to compare the shape of objects in aerospace images
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586	Mikhail Verkhoturov, Galina Verkhoturova, Rinat Karimov, Natalya Kondratyeva and Sagit Valeev	Optimization of placement in the tasks of rapid prototyping and manufacturing of volumetric parts based on additive technologies
587	Igor Blatov, Boris Likhttsinder and Elena Kitaeva	On some generalizations of the Khinchin-Polyachek formula for queuing systems with correlated input flows
588	Alexey Kuznetsov, Vadim Lukashkin, Anna Solomnikova and Vasiliy Zubkov	Calculation and modeling of electro-physical parameters of boron doped diamond plates: fitting of experimental admittance spectroscopy data
590	Yuri Kachurin, Alexander Krukov and Oleg Kananykhin	MACRO USAGE FOR ANALYZING OF A TELESCOPIC SYSTEM ABERRATIONS IN ZEMAX
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593	Alexey Dolgov, Igor Ishchuk and Valery Tyapkin	Evaluation of qualitative indicators of the mathematical model of thermal tomograms construction based on the data of different time IR images
594	Vadim Salmin, Vladimir Kurenkov, Sergey Safronov, Ivan Tkachenko, Artem Yakischik, Maksim Ivanushkin, Sergey Volgin and Anastasiia Krestina	Development of tools for computer-aided engineering and simulation of the remote sensing satellite systems, taking into account the requirements and limitations on customer resources
595	Yaroslav Skidanov	Forming an image of an object from several sources with different phase and coherence
596	Olga Andreeva, Alexander Nesterov, Tatiana Trubnikova, Vyacheslav Ivanov and Yelena Svechnikova	Ethical and Legal Problems of Data Science (On Case Study of Video Recording Technologies)

600	Alexander Ledkov	Modeling the spatial motion of a space tether system with an inflatable balloon for raising payload orbit
601	Artyom Makovetskii, Sergei Voronin, Vitaly Kober and Alexei Voronin	An algorithm for rough alignment of point clouds in three-dimensional space
602	Artyom Makovetskii, Vitaly Kober, Alexei Voronin and Dmitrii Zhernov	Facial recognition and 3D non-rigid registration
603	Svetlana Korabelshchikova	An extension of the class of Boolean functions used in symmetric cipher algorithms
605	Maxim Bobyr and Valentin Bulatnikov	Modeling of a fuzzy filter and Kalman filter for processing the input signal
607	Denis Praporshchikov, Daria Ivanova, Maria Ivanova, Anton Bourdine and Vladimir Burdin	Potential opportunities of axial mismatch in input attachment unit of few-mode reflectometers
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612	Roman Kovalenko, Pavel Smirnov and Radik Ibragimov	Use of stochastic adaptation in block method to estimate deformation field for image sequence
613	Sergey Demin, Oleg Panishev, Natalya Demina and Ruslan Latypov	Application of statistical memory functions formalism in search of pathological brain activity diagnostic criteria
614	Vladimir Fursov, Pavel Kuznetsov, Anton Kotov and Boris Martemyanov	The method of generalized functions in the problem of conformed estimation of the dynamic characteristics of video sequences
616	Sergey Demin, Oleg Panishev, Ruslan Latypov and Sergey Timashev	Flicker-noise spectroscopy analysis of magnetoencephalogram signals in diagnosis of photosensitive epilepsy
617	Elizaveta Repina and Elena Kochegurova	Time series prediction based on the penalty spline and the real-time DBScan cluster analysis algorithm
619	Olga Starinova, Danhe Chen and Elizaveta Sergaeva	Simulation of mission with low-thrust spacecraft to near-Earth asteroid
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625	Maria Pushkareva, Emil Khayrov and Iakov Karandashev	Post-training quantization of neural network through correlation maximization
631	Artem Kabanov, Yelizaveta Morkhova and Natalya Kabanova	PATHFINDER toolkit for analysis of ion migration pathways in solids
634	Maksim Kaminskiy, Igor Rytsarev and Alexander Kupriyanov	Building a graph of a sequence of text units to create a sentence generation system.
636	Elena Gusakova	Forming a unified information platform for managing a life cycle of a building object
638	Nikolay Yakimov, Aliya Khafizova, Oksana Dmitrieva and Ekaterina Artemeva	Simulation of gas flow through a hole in long pipelines operating under high pressure
639	Aleksandr Bragin and Vladimir Spitsyn	Motor imagery recognition in electroencephalograms using Hilbert space-filling curves and convolutional neural networks
644	Alexey Zhabin, Sergey Karamov and Alexey Krisilov	Simulation of Ultrashort Pulse Scattering by a Conductive Cylinder
645	Aleksandra Danilenko and Anastasia Guzhenko	Use of convolution networks to solve the problem of detection and recognition of state registration signs of vehicles
646	Kirill Volkov, Vladimir Burdin, Anton Bourdine, Oleg Delmukhametov and Evgenia Eremchuk	Model based on Prony decomposition for mode coupling of optical fibers of a cable delivery length
647	Vitali Kuzmin and Dmitrii Elenev	Monitoring and forecasting the operations of the transport complex of the enterprise
649	Ekaterina Popova and Vladimir Spitsyn	Text classification based on the use of convolutional neural networks
654	Dmitriy Kirsh	Parametric Identification of Crystal Lattices Based on Isosurface Configuration Analysis
655	Alexey Lipatov	The ternary logic for aerial objects groups detecting on base of undefined attributes

658	Valeriy Tutatchikov	Implementation of a parallel version of the algorithm for calculating a two-dimensional FFT using an analog of the Cooley-Tukey algorithm
662	Aleksandr Shirokanev and Dmitry Kirsh	Study of the ambiguity problem of Bravais unit cell choice in three-dimensional crystal lattice identification task
663	Vadim Zinurov, Andrey Dmitriev and Vitaly Kharkov	Catching fine-dispersed particles in rectangular separator depending on different process parameters
665	Sergey Arseev and Leonid Mestetsky	Handwritten Text Recognition Using Reconstructed Pen Trace with Medial Representation
667	Pavel Khanevich and Dmitry Kuzmin	Investigation of the contact copy method for recording Bragg diffraction gratings in photothermal refractive glasses
668	Dmitry Kuzmin and Pavel Khanevich	Investigation of the parameters of the angular and spectral selectivity of Bragg diffraction gratings in photo-thermo-refractive glasses
671	Oleg Surin, Pavel Sitnikov, Anastasia Khorina, Anton Ivaschenko, Anastasia Stolbova and Nataly Yu Ilyasova	Data exchange platform for digital economy
672	Vadim Zinurov, Nailya Dubkova, Oksana Popkova and Oksana Dmitrieva	Influence of separation elements shape on device efficiency
674	Vladimir Pankratov, Marina Barulina, Aleksey Golikov and Elena Pankratova	Analysis of the possibility of deterministic chaos during the movement of an Earth remote sensing satellite with gyro dampers
675	Mikhail Abramyan, Boris Melnikov, Anastasia Nichiporchuk and Marina Trenina	Application of artificial intelligence in the branch and bound method on the example of various applied problems
679	Владимир Кротков and Александра Даниленко	LIBRARY OF TOOLS, AIMED AT SIMPLIFYING THE DEVELOPMENT AND PERFORMING AUTOMATIC TESTS OF CONSOLE APPLICATIONS OF ANY DIFFICULTY ON C# AND C++ PROGRAMMING LANGUAGES
681	Alexander Krochin	Use of free software packages to improve visual data presentation by transform into U3D or PRC formats
683	Galina Zaretskaya, Nicolay Cheplagin and Andrey Drozdovskii	Transmission characteristics of ring resonator-loaded integrated optical waveguide
685	Igor Kakorin, Olesya Kakorina and Irina Zaporotskova	Mathematical modeling of the process of interaction of sulfur dioxide with pyrolyzed polyacrylonitrile
691	Andrey Parfiriev, Oksana Parfirieva and Igor Ishchuk	Quadcopter directorial control algorithm with the possibility of flying around obstacles
694	Olga Permiakova, Andrey Miakonkikh, Konstantin Rudenko and Alexander Rogozhin	Monte-Carlo simulation of resistive switching and electroforming process in Pt/HfO ₂ /TaN memristor structure
696	Alexander Kuznetsov	Game-theoretic Model of Agents' Motion over a Terrain with Obstacles
710	Irina Papkova	On a static solution to the contact interaction of a flexible rectangular in plane of a microshell with a rectangular in plane of microplate
711	Svetlana Kolesnikova and Vyacheslav Avramyonok	The application of the method of stochastic control on diversity in the task of immunology
712	Evgeniya Tsarkova, Alexandr Belyaev and Elena Andreeva	Research of the mathematical model of the immune system
715	Kirill Pugachev and Vladimir Fursov	Use of conformity principle in the visual odometry problem
717	Alexey Dzyuba	Calculation and research of point spread function in apodized optical system in order to compensate defocus
719	Yuriy Kurbatov, Igor Rytsarev and Alexander Kupriyanov	Research of text data processing algorithms in social networks
720	Vladimir Kostin and Aleksandr Borovsky	Definition of basic violators for critically important objects using the information probability method and cluster analysis
721	Yuliya Belova, Alexander Chistyakov, Anton Leontyev, Alena Filina and Alla Nikitina	Research the phytoplankton dynamics regimes depending on nutrient transformation processes in coastal systems
722	Alexander Sukhinov, Alla Nikitina, Alena Filina and Anton Leontyev	Multi-species model of interacting biological populations of shallow water
723	Sergei Zaitsev, Mikhail Semenov and Sergei Tikhomirov	Digital model of polymer molecules

724	Alexander Sukhinov, Aleksandr Chistyakov, Inna Kuznetsova, Elena Protsenko and Asya Atayan	Modeling of transport of suspended particles based on a modified Upwind Leapfrog difference scheme
726	Alexander Chistyakov, Alla Nikitina, Yulia Belova, Vladimir Litvinov and Alena Filina	Mathematical modeling of the hydrodynamic processes of shallow water bodies taking into account the processes of salt and heat transfer
727	Tatiana Afanasieva, Irina Moshkina and Vadim Tronin	Descriptive model of local and global features multivariate time series based on fuzzy tendency
728	Dmitry Gavrilov and Dmitry Lovtsov	Processing of visual information in the automated optoelectronic system of ground-space monitoring
729	Ekaterina Ushakova, Alexander Dorogov and Dmitry Zimnyakov	Low-coherence reflectometry of random media: basis approaches to data processing
730	Yury Gorelov and Lyubov Kurganskaya	About modeling of thermal condition control of the spacecraft scientific equipment blocks
731	Alexander Sukhinov, Aleksandr Chistyakov and Sofya Protsenko	Three-dimensional wave model in coastal marine systems for forecasting wave impact on shore protection and coastal structures
733	Valery Khonin	Modeling an optical correlator for visualizing phase objects
734	Sergey Volchkov, Leonid Kochkurov and Dmitry Zimnyakov	Effective dielectric function of semiconductor particles under intense laser pumping
735	Matvey Svetlov and Denis Boldyrev	Formation of random fields using the Karhunen-Loeve expansion
736	Vladimir Vakourin, Andrey Kopylov, Oleg Seredin and Konstantin Mertsalov	On the multiclass classification of words by a recurrent neural network with memory (LSTM) as applied to the problem of recognition of named entities
738	Gulnaz Kildibaeva, Svetlana Mustafina, Albina Karamova, Sophia Mustafina and Oleg Larin	The analysis of the correctness of the mathematical model of chemical reactions based on the theory of bipartite graphs
739	Alexei Meshalkin, Constantin Losmanschii, Veronica Cazac, Elena Achimova and Vladimir Podlipnov	Analysis of diffraction efficiency of phase gratings in dependence of grooves number
740	Naresh Kumar Reddy Andra and Mahdieh Hashemi	Apodized Annular apertures for super-resolution imaging
741	Arseny Golovin, Anatoly Demin and Evgenii Sechak	Landmine detection and minefield mapping with the help of multi-angle long-wave infrared hyperspectral data fused with the 3D terrain reconstruction
742	Andrey Meshcheryakov and Sergei Popov	Using of deep convolutional neural networks for visual features extraction in multiple objects tracking task
745	Roman Lobov and Ilia Lobov	Application of the method of automatic decision-making for the construction of the control algorithm for multi-drive systems.
746	Daria Zima, Alexander Spector and Darya Sokolova	Spatiotemporal spectral analysis of signals and active interference in radar with digital antenna arrays
748	Albert Mingazov, Leonid Doskolovich, Dmitry Bykov and Evgeni Bezus	Optimal mass transportation problem in the design of freeform optical elements generating far-field irradiance distributions for plane incident beam
749	Albert Mingazov, Leonid Doskolovich and Dmitry Bykov	The two reflector design problem for forming flat wavefront from a point source
752	Yuri Dimitrienko and Aydar Khuzin	Asymptotic modelling of heat and mass transfer in thin plates made of composite materials
754	Vadim Salmin and Alexey Chetverikov	Algorithm for narrowing of the region of the final trajectory parameters deflection during the flight to geostationary orbit with low thrust engines
755	Andrew Galochkin and Pavel Yakimov	Development of auto-review algorithm for conference management system
756	Nikolai Skladnev and Pavel Yakimov	Development of a service for tracking the trajectory of the object when moving in room using multiple cameras
757	Vadim Salmin, Konstantin Peresypkin, Alexey Chetverikov and Ivan Tkachenko	Using linear extrapolation of optimal solutions to determine the initial approximation in solving the problem of numerical optimization of a large-sized space structure
759	Dmitry Artemyev, Vladimir Kukushkin, Ruzanna Shavaeva, Andrey Murashko, Olga Sharapova, Vladimir Zuev and Sergey Timofeev	The study of methods of spontaneous and resonance Raman spectroscopy of blood plasma for the rapid diagnosis of preeclampsia
761	Mahdieh Hashemi and Naresh Kumar	Metaaxicon combined with amplitude filter for forming sharp focusing beams

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762	Polina Katkova and Pavel Yakimov	3D Reconstruction via single 2D Image
763	Dmitry Vasin, Vladimir Gromov, Sergey Romensky and Sergey Rokov	Automated technology for converting paper-based design documentation into an electronic 3D model of an object
764	Kharlampy Tiras and Leonid Mestetsky	Estimation of planarian regeneration dynamics from photographs
769	Dmitry Gorbachev	Evaluating the relevance of the elements of distributed computing system infrastructure when solving tasks in managing an economic unit
770	Vadim Krysko	Nonlinear dynamics rectangular in plan nanoshells
775	Alla Kravets	Research of the LDA algorithm processing results on high-level classes of patents
776	Alexander Sukhinov, Elena Protsenko, Valentina Sidoryakina and Sofya Protsenko	Numerical experiments of modeling sediment transport and dynamics of changes in the topography of shallow water bodies
777	Vladislav Pshenin and Pavel Yakimov	Platform for creating a digital profile of visitors based on face images
778	Evgenii Sechak, Andrey Romyancev, Sergey Schesnyak and Viktor Dubrovich	Alignment algorithm for composite mirrors by the method of moments
779	Larisa Stepanova	A photoelastic and finite element study of the stress field in the vicinity of two interacting cracks: stress intensity factors, T-stresses and higher order terms
781	Larisa Stepanova and Vadim Dolgich	The new algorithm for the determination of the Williams asymptotic expansion coefficients for notched semidisks using the photoelasticity method and finite element method
782	Olga Medvedeva, Sofya Mustafina and Alina Galeeva	Development of an Augmented Reality Mobile Application in Educational Purposes
783	Olga Medvedeva, Sofya Mustafina, Alia Nurgalieva and Shoabbos Ibragimov	Augmented Reality Mobile apps Development with Unity and Vuforia SDK
784	Olga Medvedeva, Murat Soilu, Chingiz Burdzhumov and Ilgam Galiullin	Using Augmented Reality Technologies for Mobile Application Development
787	Fedor Rekach, Svetlana Shambina and Yuri Belousov	Mathematical modelling of pipelines, including equipment, smoothing sharp changes in fluid pressure
788	Egor Ershov, Denis Shepelev, Dmitry Nikolaev and Valentina Bozhkova	The problem of underwater images modeling based on terrestrial ones
789	Egor Ershov, Alexander Belokopytov and Alexey Savchik	Проблемы создания датасета для решения задачи оценки освещения
791	Mikhail Grushin, Kirill Korenkov, Sergey Pushilin, Ruslan Bahshaliev, Denis Kamenev and Nikolay Kozlov	Passive way to determine the range based on the synthesized parallax effect
792	Il'Ya Katanov	Application of a perceptron to solve the problem of analyzing the fluorescence spectrum of a DBMBF2 sensor in a mixture of aromatic hydrocarbons
793	Mirzaakbar Hidayberdiev	Algorithm of Data Mining for Identification of Biological Objects
794	Yann Donon, Alexander Kupriyanov and Rustam Paringer	Brightness normalization for Blurred Image Matching
795	Yann Donon, Alexander Kupriyanov, Rustam Paringer, Igor Rytsarev, Alberto Di Meglio, Sergey Syomik, Dmitriy Kirsh and Pavel Serafimovich	Anomaly detection and breakdown prediction in RF power source output: extended research
796	Vladimir Lukin	ADAPTIVE CORRECTION OF THE IMAGE OF AN INCORRECT SOURCE-OBJECT
797	Artem Nikonorov, Dmitriy Stadnik, Albert Gareev, Pavel Greshniakov and Asgat Gimadiev	Experimental study of neural networks-based fault detection methods efficiency for electro-hydraulic systems