

ID	Authors	Title	Track	Decision
7	Natalia Rodionova	Identification of thawed and frozen soil state in some Siberia regions by multi-temporal Sentinel 1 radar data in 2017-2018	2 - Imaging	ACCEPT POSTER
9	Evgeniy Avdeev, Kseniya Volkova and Vladimir Polonsky	Suspension raiser resinometallic pillows analysis	3 - Modeling	ACCEPT ORAL
11	Mikhail Balabaev	Curvature in the construction of smooth invariant manifolds of dynamic models	3 - Modeling	ACCEPT POSTER
12	Irina Khaimovich, Vladimir Ramzaev and Ilya Martynov	Methods for finding shortest paths on graphs in organizational and economic systems and their implementation	4 - Data	ACCEPT ORAL
13	Irina Khaimovich, Vladimir Ramzaev and Vadim Chumak	Multimodel Clustering of Social Networks in Social Dampening Applying BIG DATA (acquiring knowledge from data)	4 - Data	ACCEPT POSTER
14	Aleksei Archibasov	Size reduction of viral evolution models	3 - Modeling	ACCEPT POSTER
15	Olga Sushkova, Alexei Morozov, Alexandra Gabova and Alexei Karabanov	Investigation of the multiple comparisons problem in the wave train electrical activity analysis of the muscles in Parkinson's disease patients	4 - Data	ACCEPT ORAL
16	Danil Polukarov	Some features of computer network modelling in the OMNeT++ environment	4 - Data	ACCEPT POSTER
17	Dmitry Bizin and Sergey Burlov	Development of a web filter to control access to web resources	4 - Data	ACCEPT POSTER
19	Mukesh Boori, Rustam Paringer, Komal Choudhary and Alexander Kupriyanov	Vegetation drought dynamics analysis in European Russia	2 - Imaging	ACCEPT POSTER
21	Olga Strukova and Evgeny Myasnikov	The choice of methods for the construction of PCA-based features and the selection of SVM parameters for person identification by gait	2 - Imaging	ACCEPT POSTER
26	Ilya Komarov and Evgeni Bezus	Development of a software package for modeling and analysis of light diffraction on periodic nanophotonic structures using the rigorous coupled- wave analysis technique	1 - Optics	ACCEPT POSTER
27	Aleksey Maksimov and Mikhail Gashnikov	Parameter space dimension reduction of an adaptive interpolator during multidimensional signal differential compression	2 - Imaging	ACCEPT POSTER
28	Evgeny Myasnikov	Nonlinear dimensionality reduction of hyperspectral data based on spectral information divergence preserving principle	2 - Imaging	ACCEPT ORAL
29	Dmitry Samoilov, Valentina Semenova and Sergei Smirnov	Heuristic algorithm for defuzzification of initial context in formal concept analysis	4 - Data	ACCEPT ORAL
30	Mikhail Gashnikov	Interpolation of multidimensional signals using the reduction of the dimension of parametric spaces of decision rules	2 - Imaging	ACCEPT POSTER

31	Mikhail Gashnikov	Reducing dimension of parametric space based on the approximation of components for interpolation of multidimensional signals	2 - Imaging	ACCEPT ORAL
32	Anastasiia Timofeeva and Yurii Mezentsev	Forecasting using predictor selection from a large set of highly correlated variables	4 - Data	ACCEPT POSTER
33	Anna Denisova, Anna Egorova and Vladislav Sergeev	Application of superpixel segmentation and morphological projector for structural changes detection in remote sensing images	2 - Imaging	ACCEPT POSTER
34	Dmitriy Zhukov, Vladimir Klyachkin, Victor Krasheninnikov and Yulia Kuvayskova	Selection of aggregated classifiers for the prediction of the state of technical objects	4 - Data	ACCEPT POSTER
35	Vladimir Klyachkin, Dmitriy Zhukov and Ekaterina Zentsova	ANALYSIS OF STABLE FUNCTIONING OF OBJECTS USING MACHINE LEARNING	4 - Data	ACCEPT POSTER
36	Mikhail Zavoyshkiy, Alexander Korobeynikov, Aleksey Menlitdinov and Vladislav Lyuminarskiy	The electrocardiogram signal morphology analysis based on convolutional neural network	4 - Data	ACCEPT POSTER
37	Gregory Blagodatsky, Andrej Kopysov, Vladimir Khvorenkov and Ivan Baturin	Research and development of hierarchical models of automated control systems for the parameters of the radio-line of the cognitive radio system	3 - Modeling	ACCEPT ORAL
38	Mikhail Geraskin	Game-theoretic model of wide social groups' behavior with stimulation of volunteering activities	4 - Data	ACCEPT ORAL
39	Oleg Morozov, Airat Sakhabutdinov, Ilnur Nureev and Rinat Misbakhov	Modelling and record technologies of address fiber Bragg structures based on gratings with two symmetrical pi-phase shifts	1 - Optics	ACCEPT ORAL
40	Airat Sakhabutdinov, Oleg Morozov, Ilnur Nureev and Rinat Misbakhov	Modelling and record technologies of address fiber Bragg structures based on two identical ultra narrow gratings with different central wavelenghtes	1 - Optics	ACCEPT ORAL
41	Nikita Egorov and Sergey Burlov	Development of active response module for Snort IDS.	4 - Data	ACCEPT POSTER
42	Alexandra Makarova and Valentina Sulimova	Fast approximate two-class SVM learning for large training sets	4 - Data	ACCEPT ORAL
43	Victor Krasheninnikov and Yulia Kuvayskova	Modelling and forecasting of quasi-periodic processes in technical objects based on cylindrical image models	4 - Data	ACCEPT POSTER
44	Victor Krasheninnikov and Aleksey Subbotin	Double stochastic wave models of multidimensional random fields	2 - Imaging	ACCEPT POSTER
45	Victor Krasheninnikov, Yulia Kuvayskova and Aleksey Subbotin	Autoregressive models of random fields on the circle	2 - Imaging	ACCEPT ORAL
46	Mikhail Geraskin and Olga Kuznetsova	The credit turnover system "Retailer-Bank-Insurer" analysis taking into account variations in market environment factors.	4 - Data	ACCEPT ORAL

47	Dmitry Nesterenko, Roman Pavelkin, Victor Soifer and Shinji Hayashi	Analysis of the resonance characteristics of surface plasmon-polariton modes for Ag, Au, Cu, and Al in the ultraviolet, visible and infrared regions	1 - Optics	ACCEPT ORAL
48	Lubov Shiripova and Evgeny Myasnikov	Human action recognition using dimensionality reduction and support vector machine	2 - Imaging	ACCEPT POSTER
50	Vitalii Dementev and Dmitrii Kondratev	Using double-stochastic filters to estimate the dynamics of objects on satellite image sequences	2 - Imaging	ACCEPT POSTER
51	Komal Choudhary, Mukesh Boori and Alexander Kupriyanov	Groundwater potential zones in relation to catchment condition in Orenburg, Russia	2 - Imaging	ACCEPT POSTER
52	Vitalii Dementev, Radik Magdeev and Alexander Tashlinskiy	Detection and identification of objects on multispectral satellite images	2 - Imaging	ACCEPT ORAL
53	Alexander Belov and Anna Denisova	Spatial interpolation methods for spectral-spatial remote sensing image super-resolution algorithm based on gradient descent approach	2 - Imaging	ACCEPT POSTER
54	Aleksey Maksimov and Vladislav Sergeev	A comparative study of the optimal and interpolation methods for restoration a stationary continuous signal from discrete values	2 - Imaging	ACCEPT POSTER
55	Nikita Morunov and Dimitry Golovashkin	Implementation of the FDTD method block algorithm in the MATLAB language using a graphics processing unit. 2D-decomposition case.	4 - Data	ACCEPT POSTER
56	Anton Agafonov and Alexander Yumaganov	Comparison of machine learning methods for the bus arrival time prediction problem	4 - Data	ACCEPT POSTER
57	Anton Agafonov, Vladislav Myasnikov and Aleksey Maksimov	The use of stable probability distributions in the reliable routing problem	2 - Imaging	ACCEPT POSTER
58	Aleksandr Borodinov, Alexander Yumaganov and Anton Agafonov	Public transport route planning in the stochastic network based on the individual preferences of users	2 - Imaging	ACCEPT POSTER
59	Natalja Moiseeva and Anton Moiseev	The propagation of pulses of a special shape in an inhomogeneous anisotropic medium with dispersion and torsion of the optical axis	1 - Optics	ACCEPT POSTER
60	Nikita Andriyanov and Konstantin Vasiliev	Optimal filtering of multidimensional random fields generated by autoregressions with multiple roots of characteristic equations	2 - Imaging	ACCEPT ORAL
61	Nikita Andriyanov and Maxim Sluzhivyi	The solution for identifying the order and parameters of autoregression with multiple roots of characteristic equations	2 - Imaging	ACCEPT POSTER
62	Natalia Firstova	Dynamics of the electrochemical reaction behavior under the influence of random perturbations	3 - Modeling	ACCEPT POSTER
64	Igor Kudinov, Mikhail Nikiforov and Ivan Kholopov	Camera and auxiliary sensor calibration for a multispectral panoramic vision system with a distributed aperture	2 - Imaging	ACCEPT POSTER
65	Valentina Sulimova, Oleg Seredin and Vadim Mottl	Alignment-Based Metric for Biomolecular Sequences for Herpes Viruses Recognition	4 - Data	ACCEPT ORAL

66	Pavel Tutubalin, Vladimir Mokshin and Svetlana Novikova	Status of creation of hardware-software complex of automatic control of the insulin delivery	3 - Modeling	ACCEPT ORAL
67	Andrey Sukhov, Evgeny Sagatov and Danila Skirdov	The honeypot method for data security	4 - Data	ACCEPT POSTER
68	Andrey Sukhov, Mikhail Stengach, Konstantin Lovtsov, Samarah Maihop and Sofia Timofeeva	Addressing system and routing without tables in new generation networks	4 - Data	ACCEPT POSTER
69	Marina Murtazina and Tatiana Avdeenko	The detection of conflicts in the requirements specification based on an ontological model and a production rule system	4 - Data	ACCEPT POSTER
70	Valentina Sulimova, Olga Krasotkina, Sergey Bukhonov, Vadim Mottl and David Windridge	The brain-computer interface for recognition mammograms with pathology	4 - Data	ACCEPT ORAL
71	Hongshi Lu, Yuriy Zabolotnov and Aijun Li	Application of spinning electrodynamic tether system in changing orbital parameters of space crafts and systems	3 - Modeling	ACCEPT ORAL
72	Mikhail Kurbakov, Alexandra Makarova and Valentina Sulimova	Data load optimization for solving SVM problem via averaging decision rules method for big training sets	4 - Data	ACCEPT ORAL
73	Zhe Dong, Yuriy Zabolotnov, Changqing Wang and Aijun Li	Modeling and comparative analysis of schemes for returning payload using space tethered system	3 - Modeling	ACCEPT ORAL
74	Konstantin Kiy and Roman Dosaev	A New Real-Time Method of Finding Temporal and Permanent Road Marking and Its Applications	2 - Imaging	ACCEPT POSTER
75	Nikolay Glumov and Mikhail Gashnikov	Adaptive interpolation of multidimensional signals for airborne compression	2 - Imaging	ACCEPT POSTER
76	Dimitry Golovashkin, Liudmila Yablokova and Ilya Reznik	Acceleration of calculations using block algorithms for the difference solution of the heat equation	4 - Data	ACCEPT POSTER
78	Changqing Wang, Yuriy Zabolotnov and Pavel Voevodin	Application of the averaging method to predict the motion and control of the electrodynamic tether system of nanosatellites	3 - Modeling	ACCEPT ORAL
80	Maria Kolesnikova, Anna Lyubarskaya, Dmitry Nesterenko and Victor Soifer	The resolution of optical image edge detection based on Brewster effect	1 - Optics	ACCEPT POSTER
82	Elena Shchepakina	Canards and invariant manifolds with stability change in a competitive model of population dynamics	3 - Modeling	ACCEPT POSTER
83	Dmitrii Tihonkih, Artyom Makovetskii, Vitaly Kober and Aleksei Voronin	Preliminary ICP stage for data-thinning based on object geometry	2 - Imaging	ACCEPT POSTER
84	Vladimir Sobolev	Decomposition of enzyme kinetics equations	3 - Modeling	ACCEPT POSTER

85	Vladimir Chernov	Ternary machine arithmetic in quadratic fields	4 - Data	ACCEPT ORAL
86	Alexander Tashlinskii, Mikhail Tsaryov and Galina Safina	Adaptation of the mathematical apparatus of the Markov chain theory for the probabilistic analysis of recurrent estimation of image inter-frame geometric deformations	2 - Imaging	ACCEPT POSTER
87	Pavel Chochia	Image Spectrum Analysis for Distortion Operator Diagnostic	2 - Imaging	ACCEPT ORAL
88	Egor Rukin, Nikita Myazin, Vadim Davydov and Valentin Dudkin	Simulation of non-stationary processes in the study of liquid media by the method of nuclear magnetic resonance in a weak field	3 - Modeling	ACCEPT POSTER
89	Olga Malenova, Anna Yashina, Marina Albutova and Larisa Trubnikova	Algorithm for detecting spherulite marker in human blood serum facies	2 - Imaging	ACCEPT POSTER
90	Natalya Latukhina, Daria Lizunkova and Ivan Shishkin	Simulation of the optical properties of multilayer structures containing layers of porous silicon and optical coatings	1 - Optics	ACCEPT POSTER
91	Pavel Smirnov, Roman Kovalenko and Marat Suetin	Technique to model the movement of the scene using image sequence	2 - Imaging	ACCEPT POSTER
92	Maria Sitnikova	Complex viral dynamics models reduction	3 - Modeling	ACCEPT POSTER
93	Nadezda Grebenikova, Vysotsky, Davydov and Smirnov	Features of processing optical signals for monitoring the state of the liquid flow environment with a refractometer	1 - Optics	ACCEPT POSTER
94	Vladimir Nozhkin, Mikhail Semenov and Igor Ulshin	Solution of the differential equation of heat transfer in the atmosphere	3 - Modeling	ACCEPT ORAL
95	Alexander Shirokanev, Dmitry Kirsh and Alexander Kupriyanov	Effectiveness investigation of a high-performance crystal lattice parametric identification algorithm based on CUDA technology	4 - Data	ACCEPT ORAL
97	Alexandr Nechitaylo, Olga Vasilchuk and Ann Gnutova	Description and formation of the database perimeter for systematization and storage of multi-structured data	4 - Data	ACCEPT POSTER
99	Alexander Tashlinskii, Galina Safina and Roman Kovalenko	Probabilistic finite modeling of stochastic estimation of image inter-frame geometric deformations	2 - Imaging	ACCEPT POSTER
100	Dmitrii Kraus, Ramilya Kalimullina and Alena Zhukova	Numerical characteristics of image geometric deformation parameters estimates convergence at stochastic gradient estimation	2 - Imaging	ACCEPT POSTER
101	Vladimir Nesterov and Angelica Li	Structures of absolutely invariant measurement systems and conditions for their physical realizability.	3 - Modeling	ACCEPT POSTER
103	Anton Adamov and Vladimir Khramov	The optimal parameters of the laser triangulation modified thickness meter	1 - Optics	ACCEPT POSTER
105	Vyacheslav Pararin and Sergey Karpeev	Transformation of a zero-order Bessel beam in a c-cut lithium niobate	1 - Optics	ACCEPT ORAL

108	Roman Ponomarev, Mikhail Smaev, Dmitry Moskalev and Pavel Karnaushkin	Direct written waveguides in lithium niobate	1 - Optics	ACCEPT ORAL
109	Michael Bolotov, Vadim Pechenin, Nikolay Ruzanov and Dmitriy Balyakin	Neural network model in predicting digital geometric parameters relative position of aircraft engine parts	4 - Data	ACCEPT POSTER
111	Yuliya Khitskova and Katerina Makoviy	Complex interaction of AHP technique and SWOT – analysis for virtual desktop infrastructure (VDI)	4 - Data	ACCEPT ORAL
112	Eugene Bashkirov and Marya Guslyannikovs	Influence of Stark shift on atomic entanglement induced by a thermal field of one-mode cavity	1 - Optics	ACCEPT POSTER
113	Alexander Kovartsev, Daria Popova-Kovartseva and Galina Klimashova	Parallel algorithm of structural evolution of large Morse clusters	4 - Data	ACCEPT ORAL
114	Alexander Gorokhov	Quantum Control for the Systems with Noncompact Dynamical Groups	3 - Modeling	ACCEPT POSTER
117	Alexander Kovartsev and Anastasia Nazarova	Computer Representation of Water Turbine Performance Characteristics Using Optimal Splines	3 - Modeling	ACCEPT ORAL
118	Olga Vidilina and Nataliya Voropaeva	Reduction of the optimal control problem for a magnetoelectric power drive	3 - Modeling	ACCEPT POSTER
120	Angelina Moroz and Vadim Davydov	Fiber-optic communication system for transmitting heterodyne signals in active phased antenna arrays of radar stations	1 - Optics	ACCEPT POSTER
121	Pavel Khorin and Svetlana Khonina	Calculation of diffractive optical elements for the formation of illuminating beams in plane microscopy	1 - Optics	ACCEPT ORAL
122	Yuliya Podgornova and Sultan Sadykov	Comparative analysis of segmentation algorithms for isolating microcalcifications on mammograms	2 - Imaging	ACCEPT POSTER
124	Alexandr Eryomenko and Anton Doroshin	Dynamics of a composite spacecraft with a movable device attached with flexible rods	3 - Modeling	ACCEPT POSTER
125	Taisia Chesnokova and Natalya Ilyasova	Development of automatic selection technique of interest regions in lungs x-rays images	2 - Imaging	ACCEPT ORAL
126	Kirill Pugachev, Yegor Goshin and Vladimir Fursov	Image stitching algorithm based on principle of image fragments samples conformity	4 - Data	ACCEPT POSTER
127	Natalya Latukhina, Galina Rogozhina, Ivan Shishkin and Daria Lizunkova	Simulation of the pore formation process on silicon wafers with a textured surface	3 - Modeling	ACCEPT POSTER
128	Olga Mossoulina	Generation of texture surface based on the method of random midpoint displacement	1 - Optics	ACCEPT POSTER
129	Sergey Vostokin and Irina Bobileva	Using the bag-of-tasks model with centralized storage for distributed sorting of large data array	4 - Data	ACCEPT ORAL
130	Semen Logunov, Vadim Davydov, Michael Vysoczky, Valentin Dudkin and Danila Puz'ko	Features of the construction of the registration scheme of optical images in an autonomous quantum magnetic field sensor	1 - Optics	ACCEPT ORAL

132	Andrey Kuznetsov	Digital image forgery detection using deep learning approach	2 - Imaging	ACCEPT ORAL
133	Nikita Demin, Alexander Shirokanev, Natalya Ilyasova and Evgeniy Zamyckij	Applying of graph-based retinal OCT image segmentation for localizing of diabetic macular edema regions	2 - Imaging	ACCEPT ORAL
135	Aleksandr Shirokanev, Natalya Ilyasova and Vladislav Shihevich	CUDA parallel programming technology application for analysis of big biomedical data based on computation of effectiveness features	4 - Data	ACCEPT ORAL
136	Aleksandr Degterev, Ivan Lamkin and Sergey Tarasov	Research organic light-emitting diodes with colloidal quantum dots	1 - Optics	ACCEPT ORAL
137	Alexei Morozov, Olga Sushkova and Alexander Polupanov	Development of a Method of Terahertz Intelligent Video Surveillance Based on the Semantic Fusion of Terahertz and 3D Video Images	2 - Imaging	ACCEPT POSTER
139	Zufar Sunagatov	The synthesis of the block algorithm for the difference solution of transport equation	4 - Data	ACCEPT POSTER
140	Michael Osipov and Roman Sergeev	Research the behavior of subjective speckles depending on the type of entrance aperture	1 - Optics	ACCEPT ORAL
141	Andry Sedelnikov, Tanya Ivashova and Sergey Safronov	Restoration of the current signal from solar panels of AIST small spacecraft for estimate the parameters of the rotational motion	3 - Modeling	ACCEPT ORAL
143	Olga Shteinbreher and Tatyana Burnysheva	Application of mathematical modeling to solve problems of optimization of lattice structures	3 - Modeling	ACCEPT ORAL
144	Ivan Kershner, Mikhail Sinkin and Yury Obukhov	Detection of epileptic seizures in EEG signals during long-term monitoring of patients after traumatic brain injury	4 - Data	ACCEPT ORAL
145	Natalya Ilyasova, Aleksandr Shirokanev and Ilya Klimov	Convolutional neural network application for analysis of fundus images	4 - Data	ACCEPT ORAL
146	Anna Grevtseva, Vadim Davydov, Konstantin Greshnevikov, Maria Nikitina, Vasiliy Rud' and Konstantin Smirnov	Method of assessment the degree of reliability of the pulse wave image in the rapid diagnosis of the human condition	1 - Optics	ACCEPT POSTER
149	Aleksandr Kolpakov and Yuriy Kropotov	Local approximation of discrete processes by interpolation polynomials	4 - Data	ACCEPT POSTER
150	Yury Gorelov, Sergey Danilov, Lyubov Kurganskaya and Andrey Shcherbak	About modeling of thermal condition control of the spacecraft scientific equipment blocks	3 - Modeling	ACCEPT POSTER
151	Vladislav Lyubimov	Modeling of the secondary resonance effects in the spherical motion of a rigid body with flywheels	3 - Modeling	ACCEPT POSTER
152	Bogdan Sokolenko, Nataliya Shostka, Dmitrii Poletaev, Olga Karakchieva and Server Halilov	Roughness measurement by optical vortices array with nanoscale resolution	1 - Optics	ACCEPT POSTER

153	Mikhail Elantcev, Igor Arkhipov and Renat Gafarov	The method of iterative image normalization for tasks of visual navigation of UAVs	2 - Imaging	ACCEPT ORAL
154	Zaur Shibzukhov	Center based clustering with robust averaging aggregation functions	4 - Data	ACCEPT ORAL
155	Vladimir Nesterov, Vasily Mukhin and Dmitry Nesterov	The method of restoring the real coordinates of the object from its flat image.	2 - Imaging	ACCEPT ORAL
156	Irina Reimers, Ilya Safonov and Ivan Yakimchuk	Segmentation of 3D FIB-SEM data with pore-back effect	2 - Imaging	ACCEPT ORAL
157	Anton Kornilov, Ilya Safonov, Alena Goncharova and Ivan Yakimchuk	Selection of an optimal region in a 3D microtomographic image for further analysis	2 - Imaging	ACCEPT ORAL
158	Vladimir Fursov, Yegor Goshin and Anton Kotov	Solution of overdetermined systems of equations using the conforming subsystem selection	4 - Data	ACCEPT POSTER
159	Alexey Dorovskoy	Information systems for analyzing medical diagnoses	4 - Data	ACCEPT POSTER
160	Azamat Faskhutdinov, Ilya Arefyev and Irek Gubaidullin	Mathematical model of the catalytic isomerization reactor block of the pentane-hexane fraction based on the kinetic model	3 - Modeling	ACCEPT POSTER
162	Kamila Koledina, Sergey Koledin and Irek Gubaydullin	Algorithms for optimizing the conditions for complex catalytic reactions	3 - Modeling	ACCEPT POSTER
163	Kamila Koledina, Ravil Zaynullin, Irek Gubaydullin, Sergey Koledin and Arslan Akhmetov	Multipurpose optimization of the temperature regime of the catalytic reforming unit of gasoline based on the kinetic model	3 - Modeling	ACCEPT POSTER
164	Kamila Koledina, Irek Gubaydullin, Sergey Koledin, Anna Vovdenko, Alfiya Bayguzina and Ravil Khusnutdinov	Mathematical modeling of the synthesis reaction benzyl butyl ether	3 - Modeling	ACCEPT POSTER
165	Mikhail Vovdenko, Emil Akhmerov, Kamila Koledina and Irek Gubaydullin	Mathematical modeling of radical-chain reaction of isopropylbenzene oxidation	3 - Modeling	ACCEPT POSTER
166	Ilfat Baynazarov, Irek Gubaydullin, Ilnur Akhmetov and Rustem Gafiyatullin	Mathematical model of process of production of phenol and acetone from cumene hydroperoxide	3 - Modeling	ACCEPT POSTER
167	Konstantin Smirnov, Vadim Davydov and Yuriy Batov	InP/InGaAs photocathode for hybrid SWIR photodetectors	1 - Optics	ACCEPT POSTER

168	Vladimir Gridin, Vsevolod Perepelov, Vladimir Solodovnikov and Nikolay Yakhno	The diffusion-tensor MRI data analysis for cerebral microangiopathy influence detection on the integrity of the brain white matter in Alzheimer's disease patients	4 - Data	ACCEPT ORAL
170	Alexey Ruchay, Konstantin Dorofeev and Vsevolod Kalschikov	A novel switching bilateral filtering algorithm for depth map	2 - Imaging	ACCEPT POSTER
171	Alexey Ruchay, Konstantin Dorofeev and Vsevolod Kalschikov	Accuracy analysis of 3D object reconstruction using point cloud filtering algorithms	2 - Imaging	ACCEPT POSTER
172	Vladimir Pavelyev, Andrei Mezhenin, Mariia Sovetkina and Anastasiya Rymzhina	Theoretical study of the photoconductivity mechanism of the structure "carbon nanotubes – silicon substrate"	1 - Optics	ACCEPT POSTER
173	Liana Nurislamova, Irek Gubaydullin, Ravil' Uzyanbaev and Alena Musina	Computational aspects of Simplification of Mathematical Models of Chemical Reaction Systems	3 - Modeling	ACCEPT POSTER
174	Dmitrii Poletaev, Bogdan Sokolenko, Alexandr Nudga and Alexandr Starosek	Advanced nanoantenna for photovoltaics	1 - Optics	ACCEPT POSTER
175	Oleg Phylonin and Konstantin Nasonov	Development and research of mathematical model of 3D track detector for nanosatellite	3 - Modeling	ACCEPT ORAL
176	Igor Kulikov, Igor Chernykh, Viktor Protasov and Irek Gubaydullin	Simulation of Formaldehyde Formation During a Galaxy Collision Using Vectorized Numerical Method on Intel Xeon Phi Accelerators	3 - Modeling	ACCEPT ORAL
177	Fedor Martynenko, Alexandr Dorokhov, Alexei Martynenko and Andrei Radzhabov	The contribution of one-meson interaction to fine and hyperfine structure of muonic hydrogen	3 - Modeling	ACCEPT POSTER
178	Mikhail Voskoboynikov, Alexey Podstrigaev and Vadim Davydov	Assessment of the view area of parachuted radio monitoring system and stabilization of flight under wind forcing	3 - Modeling	ACCEPT ORAL
179	Eugene Bashkirov and Mikhail Evseev	Dynamics of two dipole-coupled superconducting qubits interacting with two independent coplanar resonators	1 - Optics	ACCEPT POSTER
180	Victor Zhidchenko, Heikki Handroos and Alexander Kovartsev	On-line calculation of fatigue in hydraulically actuated heavy equipment using IoT and Digital Twin concepts	3 - Modeling	ACCEPT ORAL
186	Mikhail Kirilenko and Sergey Volotovskiy	Calculation of the vortex eigenfunctions of the finite propagation operator in the near-field diffraction	1 - Optics	ACCEPT ORAL
187	Anatoliy Belousov, Andry Sedelnikov and Anastasia Gorozhankina	Simulation of the motion control system for small spacecraft with electrothermal micromotor.	3 - Modeling	ACCEPT ORAL

188	Yurii Mezentsev and Nina Baranova	About some new results of testing the Algorithm for Solving the Task of Controlling the Input and Output Material Flows of an Industrial Enterprise	3 - Modeling	ACCEPT ORAL
189	Viacheslav Sorokin, Alexei Eskin, Olga Sukhorukova, Alexei Martynenko and Fedor Martynenko	Hyperfine structure of mesomolecular ions $td\ \mu$, $tp\ \mu$, $dp\ \mu$	3 - Modeling	ACCEPT ORAL
190	Ravil Uzyanbaev, Irek Gubaydullin, Kseniya Shirochenko and Alexander Safronov	Modification of the block of rectification of phenol and acetone by the mounting of the recoverator at the knot of decomposition of hydropertisi based on mathematical modeling	3 - Modeling	ACCEPT POSTER
192	Olga Sukhorukova, Alexander Dorokhov, Alexei Martynenko, Fedor Martynenko and Viacheslav Sorokin	Hyperfine structure of P-states of light muonic atoms	3 - Modeling	ACCEPT POSTER
193	Vladimir Fursov, Kseniya Medvedeva and Elvira Fatkhutdinova	Technology of forming adaptive recovery filters in mobile devices	4 - Data	ACCEPT POSTER
194	Nataliya Shostka, Olga Karakchieva, Bogdan Sokolenko and Vladimir Shostka	System of optical traps for controlled three-dimensional shifting	1 - Optics	ACCEPT ORAL
196	Andrey Tyugashev and Yuriy Sygurov	Modeling of the Spacecraft onboard apparatus and ways of building a consistent control logic in case of limited onboard resources	3 - Modeling	ACCEPT ORAL
198	Ruslan Pikalov	Strategy for the realization soft docking with space debris by using tether system	3 - Modeling	ACCEPT ORAL
199	Kirill Demochkin and Andrey Savchenko	Visual Product Recommendation using Neural Aggregation Network and Context Gating	2 - Imaging	ACCEPT ORAL
200	Elena Klimanova and Alexander Maksimov	Four-dimensional models for control system typical units	3 - Modeling	ACCEPT POSTER
201	Vladimir Aslanov and Tatyana Ledkova	The effect of climber initial velocity on orbital space elevator dynamics	3 - Modeling	ACCEPT ORAL
202	Alexey Eskin, Vladimir Korobov, Alexey Martynenko and Viacheslav Sorokin	Energy levels of muonic helium	3 - Modeling	ACCEPT ORAL
203	Andrey Rastorguev, Sergey Kharitonov, Nikolay Kazanskiy and Aleksandr Butko	Simulation of image formation by hyperspectral equipment taking into account the parameters of the spacecraft	1 - Optics	ACCEPT ORAL

204	Aleksandr Burlakov, Alexander Machikhin, Demid Khokhlov, Lyudmila Sleptsova, Viktor Kuzmin, Aleksei Gadzaov, Dmitrii Tytik, Sergei Busev and Vadim Kasatkin	Acousto-optic spectral imaging for early diagnostics of the functional condition of the developing biosystem	2 - Imaging	ACCEPT POSTER
205	Vladimir Khvesyuk, Bin Liu and Alexander Barinov	A new look at Kapitza conductance calculations for various materials	3 - Modeling	ACCEPT ORAL
206	Elena Zubkova, Oleg Saprykin and Aleksey Tikhonov	Optimization of urban public transport accessibility based on genetic algorithm	3 - Modeling	ACCEPT POSTER
207	Anna Aletdinova, Zoja Kapelyuk and Alena Kiprisheva	For developing a toolkit of assessing the critical competencies of agricultural employees	3 - Modeling	ACCEPT ORAL
209	Elena Tropkina	Reduction of model of oncolytic virus therapy	3 - Modeling	ACCEPT POSTER
211	Eugene Bashkirov and Vladimir Reshetov	Entanglement in a detuned two-photon two-atom Tavis-Cummings model	3 - Modeling	ACCEPT POSTER
213	Alexey Razmolov, Konstantin Firsov and Irina Klitochenko	Radiation model for spectral channels of radiometers installed Sentinel-2A и Landsat 8	2 - Imaging	ACCEPT ORAL
214	Vladimir Khvesyuk, Wenpei Qiao and Alexander Barinov	Modeling of phonon diffusion using a Monte-Carlo method based on physics of phonon	3 - Modeling	ACCEPT ORAL
215	Yurij Mezentsev and Yuliya Korotkova	Formulation of the problem of optimizing an operating flight schedule to minimize flight delays	3 - Modeling	ACCEPT POSTER
216	Leniza Enikeeva and Irek Gubaydullin	Simulation of the low-temperature steam reforming of light hydrocarbons mixtures at various flow rates	3 - Modeling	ACCEPT POSTER
218	Anna Glazkova	Simulation and researching of the formation of Bessel vortex beams using diffraction axicons	1 - Optics	ACCEPT POSTER
221	Ivan Pisarenko and Eugeny Ryndin	Numerical Simulation of High-Speed AIIIIV Photodetectors within Drift-Diffusion Approximation	3 - Modeling	ACCEPT ORAL
224	Veronika Blank, Roman Skidanov and Yurii Strelkov	Axicon for imaging spectrometer	1 - Optics	ACCEPT ORAL
225	Sergei Stepanenko and Pavel Yakimov	Using high-performance deep learning inference platform to accelerate object detection	4 - Data	ACCEPT POSTER
226	Elena Demyanenko and Anastasia Kosolapova	Development of mathematical model of operation forming with discounting assumption about the flat-deformed state	3 - Modeling	ACCEPT POSTER
227	Bulat Eminov, Vyacheslav Zakharov and Sergei Shalagin	Simulating of expanded Markov chains by minimal polynomials over the field GF(q)	3 - Modeling	ACCEPT ORAL
229	Vjacheslav Zakharov and Sergey Shalagin	Distributed image processing based on the same IP-cores in FPGA-architecture	4 - Data	ACCEPT ORAL

231	Oleg Shishkin, Nikolay Abramov, Alexander Talalaev, Vitaly Fralenko and Vyacheslav Khachumov	Neural network technologies to search for targets in Earth remote sensing images	2 - Imaging	ACCEPT POSTER
232	Vladimir Shostka, Nataliya Shostka and Vladislav Vershitsky	Dynamics of fractal - cluster structures of the surface layer of alcohol-containing aqueous solutions	1 - Optics	ACCEPT POSTER
233	Andrey Tsyganov, Yulia Tsyganova and Anastasia Kuvshinova	Dynamic identification of boundary conditions for convection-diffusion transport model in the case of noisy measurements	3 - Modeling	ACCEPT ORAL
234	Pavel Mokshin, Sucheta Juneja and Vladimir Pavelyev	synthesis of silicon nanowires using plasma chemical etching process for solar cell applications	1 - Optics	ACCEPT POSTER
235	Michael Bolotov, Vadim Pechenin, Nikolay Ruzanov and Ilya Grachev	Information model and software architecture for the implementation of the digital twin of the turbine rotor	4 - Data	ACCEPT POSTER
236	Vladimir Zelenskiy	Parametric modeling of binary fiber optic sensor design	1 - Optics	ACCEPT POSTER
237	Olga Starinova, Miroslav Rozhkov, Bakhyt Alipova and Irina Chernyakina	Modeling the process of optical characteristics variation for a solar sail surface during heliocentric flights	1 - Optics	ACCEPT POSTER
238	Sofiya Ganchevskaya, Roman Skidanov and Vadim Vasilev	Transmitted moment of rotation in Bessel beams formed by different vortex axicons	1 - Optics	ACCEPT ORAL
239	Evgeny Mikhin, Paul Golovinski and Alexey Drobyshev	Energy exchange in coupled forced and damped quantum harmonic oscillators at zero temperature	1 - Optics	ACCEPT POSTER
240	Evgeniy Minaev	An investigation of machine learning method based on fractal compression	4 - Data	ACCEPT POSTER
242	Ekaterina Orlova	Model for discrete optimal control of enterprise's financial processes	3 - Modeling	ACCEPT ORAL
243	Victor Tsvetov	Algebras of finitary relations	4 - Data	ACCEPT POSTER
244	Semyon Bryatov and Aleksandr Borodinov	Blockchain technology in the pharmaceutical supply chain: researching a business model based on Hyperledger Fabric	4 - Data	ACCEPT POSTER
245	Raoul Nigmatullin and Artem VorobeV	How to read the trendless sequences: the "universal" set of quantitative parameters	3 - Modeling	ACCEPT ORAL
246	Alexey Podstrigaev, Alexander Lukyanov, Andrey Smolyakov, Andrey Shishkov, Vadim Davydov and Maria Nikitina	The expediency of fiber-optical communication line used in different schemes of reception tract of the radio monitoring complex	1 - Optics	ACCEPT ORAL
250	Alexey Gorevoy, Vasily Koluchkin, Vladislav Batshev and Alexander Machikhin	Calibration simulation for stereoscopic optical systems using optical design software	1 - Optics	ACCEPT ORAL

251	Oksana Mandrikova and Anastasia Rodomanskay	Analysis of geomagnetic field data during periods of high solar activity and magnetic storms	4 - Data	ACCEPT ORAL
252	Maxim Yavorsky, Dmitriy Vikulin and Constantine Alexeyev	Dynamic polarization-dependent optical-vortex-controlling via a fiber with acousto-optic interaction	1 - Optics	ACCEPT ORAL
253	Milyasha Davletova, Olesya Dubinets, Gulshat Islamova and Irek Gubaidullin	Representation of the process of oxidative regeneration of coked catalysts in a fixed bed based on graph theory	3 - Modeling	ACCEPT POSTER
254	Andrey Solovyov, Mikhail Semenov, Peter Meleshenko and Olga Reshetova	Dynamic features of systems of hysteresis-related Van der Pol oscillators	3 - Modeling	ACCEPT ORAL
255	Zeinulla Zhanabaev, Tatyana Grevtseva, Kirill Gonchar, Gauhar Mussabek, Dana Yermukhamed, Almas Serikbayev, Rakhila Assilbayeva, Akylbek Turmukhambetov and Victor Timoshenko	Quantitative analysis of morphology of porous silicon nanostructures formed by metal-assisted chemical etching	2 - Imaging	ACCEPT ORAL
256	Anh Nhat Le, Dmitry Kulyabov and Konstantin Lovetsky	A new algorithm used Chebyshev pseudospectral method to solve nonlinear second-order Lienard differential equations	3 - Modeling	ACCEPT POSTER
257	Aleksandr Borodinov and Vladislav Myasnikov	Analysis of the preferences of public transport passengers in the task of building a personalized recommender system	2 - Imaging	ACCEPT ORAL
258	Iana Ivanova and Vasily Zubkov	Modeling of resonant-tunneling effects in nanoheterostructures with quantum well in LabVIEW and Matlab	3 - Modeling	ACCEPT POSTER
260	Dmitry Savelyev	Investigation of the vortex laser beam shift relative to the optical element using high-performance computer systems	1 - Optics	ACCEPT ORAL
261	Victor Kotlyar, Alexey Kovalev and Alexey Porfirev	Measurement of the fractional orbital angular momentum of asymmetric laser beams by using two cylindrical lenses	1 - Optics	ACCEPT ORAL
262	Alexander Yumaganov	A combined method of similar code sequences search in executable files	4 - Data	ACCEPT POSTER
263	Denis Zherdev and Prokudin Vladimir	High performance radar images modelling and recognition of real objects	4 - Data	ACCEPT POSTER
265	Dmitriy Andrianov, Sergey Eremeev and Yuri Kovalev	Algorithm for constructing 3D Barcodes for represent nD spatial objects in GIS	2 - Imaging	ACCEPT POSTER
267	Vladimir Kurenkov and Alexander Kucherov	Methodology and Software for Estimating Target Efficiency of Land Remote Sensing Satellites	3 - Modeling	ACCEPT POSTER
268	Aleksey Filippov, Nadezhda Yarushkina, Anton Romanov, Maria Grigorieva and Aleksandra Dolganovskaya	Application of the ontology merging in the production capacity planning for the integration of information systems	4 - Data	ACCEPT ORAL

269	Dmitriy Ivanov, Natalya Chertykovtseva, Anna Terekhova-Zharkova and Elena Andreeva	Identification of exponential trend models with fractional white noise	3 - Modeling	ACCEPT POSTER
270	Nishant Tripathi, Valentin But, Sergey Lebedev, Sunil Kumar and Maria Sovetkina	analysis and optimization of photonics devices manufacturing technologies based on carbon nanotubes	1 - Optics	ACCEPT ORAL
272	Ilyas Sharapov and Dmitry Savelyev	The predict currency fluctuations using data mining techniques	4 - Data	ACCEPT POSTER
275	Oleg Zayakin and Oksana Suldina	software application for testing a data treatment module of an experimental laser round meter	1 - Optics	ACCEPT POSTER
276	Alexandr Ulyankin and Oleg Myakinin	FPGA based diagnostic system for Malignant Melanoma dermatoscopy image recognition	4 - Data	ACCEPT POSTER
277	Ivan Tkachenko, Sergey Safronov, Ivan Kaurov, Maksim Ivanushkin and Sergey Volgin	Processing telemetry data and modeling of operation of "aist" small satellites on-board equipment	3 - Modeling	ACCEPT ORAL
278	Ekaterina Kurbatova and Veronika Lyalina	Shadow detection on color images	2 - Imaging	ACCEPT ORAL
279	Vadim Salmin, Konstantin Peresypkin, Alexey Chetverikov and Ivan Tkachenko	Numerical optimization of geometric configuration of large space structure	3 - Modeling	ACCEPT POSTER
282	Alexey Pyataev, Andrey Redkin and Anna Pyataeva	Tree state category identification for boreal area conifers using global features estimation by fuzzy logic approach	2 - Imaging	ACCEPT POSTER
283	Alexey Nevzorov, Andrey Orlov and Dmitry Stankevich	Detection of quasi-harmonic signals with a priori unknown parameters in a high additive noise by machine-learning methods.	4 - Data	ACCEPT POSTER
284	Ivan Meshkov, Guzel Abdrakhmanova, Elizaveta Grakhova, Valery Bagmanov, Irina Vinogradova, Albert Sultanov, Azat Gizatulin and Ilya Kuk	An approach for generating and detecting the signals with the given orbital angular momentum for wireless communication systems	3 - Modeling	ACCEPT POSTER
285	Pavel Khanevich and Sergey Odinkov	Development and research of the method of obtaining computer-synthesized Fourier holograms for the formation of hidden images in security holograms	1 - Optics	ACCEPT ORAL
286	Pavel Sitnikov, Anastasia Khorina, Anton Ivaschenko, Anastasia Stolbova and Natalya Ilyasova	Industrial application of Big Data services in digital economy	4 - Data	ACCEPT POSTER
287	Victor Fedoseev	A method for watermarking JPEG 2000 lossy compressed images	2 - Imaging	ACCEPT POSTER
288	Anna Egorova and Victor Fedoseev	Comparative evaluation of semi-fragile JPEG watermarking methods	2 - Imaging	ACCEPT POSTER

289	Roman Alexandrov, Nikolay Laguntsov and Sergey Tikhonov	Mathematical modeling of a multistage electrolysis plant for producing heavy and light water	3 - Modeling	ACCEPT POSTER
290	Ilona Kulikovskikh, Sergej Prokhorov, Tarzan Legović and Tomislav Šmuc	Growing descent of stochastic gradient with the generalized logistic map	4 - Data	ACCEPT ORAL
291	Andrey Rybakin	Research of possibility of optical convolution implementation in convolutional neural network layer.	1 - Optics	ACCEPT ORAL
295	Larisa Stepanova	Computer simulation of the damage accumulation processes in cracked solids by the user procedure UMAT of Simulia Abaqus	3 - Modeling	ACCEPT ORAL
296	Larisa Stepanova and Sergej Bronnikov	Estimation of crack propagation direction angle under mixed - mode loading (Mode I and Mode II): generalized fracture mechanics criteria and atomistic modeling (molecular dynamics method)	3 - Modeling	ACCEPT ORAL
297	Larisa Stepanova and Vadim Dolgich	Finite element study of mixed mode loading of the cracked semicircular disc under bending	3 - Modeling	ACCEPT POSTER
298	Larisa Stepanova and Ekaterina Mironova	Intermediate self-similar asymptotic presentation of the stress and damage fields in the vicinity of the mixed mode crack tip under creep regime	3 - Modeling	ACCEPT POSTER
299	Maksim Mokrousov	Fuzzy search automation in the problem of recognition of old Cyrillic texts	4 - Data	ACCEPT ORAL
300	Oleg Pavlov	Dynamic game task of executors incentives in projects for the development of new production in continuous time	4 - Data	ACCEPT POSTER
301	Aleksei Dzyuba	Optical phase retrieval with the image of intensity in the focal plane based on the convolutional neural networks	1 - Optics	ACCEPT POSTER
302	Anastasia Ustinova	Mathematical modeling of skin multispectral autofluorescence	1 - Optics	ACCEPT POSTER
303	Alexander Volyar	Avalanche instability of OAM in singular beam arrays: problems and perspective	1 - Optics	ACCEPT ORAL
304	Oleg Golovnin	Data-driven profiling of traffic flow with varying road conditions	4 - Data	ACCEPT POSTER
305	Yana Akimova, Michael Bretsko, Yuriy Egorov and Alexander Volyar	A digital approach to measuring the spectrum of the OAM of real-time degenerate combined singular beams	1 - Optics	ACCEPT ORAL
306	Yana Akimova, Michael Bretsko, Yuriy Egorov and Alexander Volyar	Purely degenerate arrays of optical vortices and measurement of amplitudes and phases of partial modes	1 - Optics	ACCEPT POSTER
307	Grigoriy Fokin	Positioning of Radio Emission Sources with Unmanned Aerial Vehicles using TDOA-AOA Measurement Processing	3 - Modeling	ACCEPT ORAL
309	Pavel Katkov and Alexander Khramov	The study of the possibility of using artificial neural networks for the diagnosis of myocardial infarction by electrocardiogram.	4 - Data	ACCEPT POSTER
310	Ekaterina Zguralskaya	Analysis of the structure of the relationship between the descriptions of objects of classes and evaluation of their compactness	4 - Data	ACCEPT ORAL

311	Aleksey Golubkov, Andrey Tsyganov, Yulia Tsyganova and Igor Petrishchev	Decentralized multisensor estimation of motion parameters of an object moving along a complex trajectory	3 - Modeling	ACCEPT ORAL
312	Mikhail Isayev and Dmitry Savelyev	Investigation of optimal configurations of a convolutional neural network for the identification of objects in real-time	4 - Data	ACCEPT POSTER
313	Yuliya Bobreneva and Irek Gubaydullin	Investigation of heat transfer process in the fracture-porous reservoir	3 - Modeling	ACCEPT ORAL
314	Anastasia Shatskaya and Dmitry Artemyev	mathematical modeling of optical fiber systems for efficient registration of skin fluorescence	1 - Optics	ACCEPT ORAL
315	Konstantin Vasiliev, Vitaly Dement'Ev and Nikita Andriyanov	Using probabilistic statistics to determine the parameters of doubly stochastic models based on autoregression with multiple roots	2 - Imaging	ACCEPT ORAL
316	Valery Zasov	Models of parallel specialized processors for solution the problem of signal separation	4 - Data	ACCEPT ORAL
317	Gregory Pchelkin, Vadim Davydov and Varvara Fadeenko	Features microwave transmission on marine objects	1 - Optics	ACCEPT POSTER
318	Nikita Andriyanov	The software package for statistical analysis of autoregressive and doubly stochastic random processes and random fields	2 - Imaging	ACCEPT POSTER
319	Sergey Fomchenkov and Alexey Porfirev	Investigation of a linear variable optical filter (LVOF) manufacturing process	1 - Optics	ACCEPT ORAL
320	Alex Tishin, Margarita Karaseva, Sergei Tikhonov and Nikolay Laguntsov	Mathematical modelling and numerical study of recirculation membrane and membrane-refrigerated systems of compressed air dehydration	3 - Modeling	ACCEPT POSTER
321	Daria Kazakevich, Vladimir Kazakevich, Pavel Kazakevich and Pavel Yaresko	Laser ablation in liquids under the conditions of external electric field	1 - Optics	ACCEPT ORAL
325	Olesya Dubinets, Milyausha Davletova, Irek Gubaydullin and Guzel' Khannanova	Modeling of coke burning process on catalyst grain	3 - Modeling	ACCEPT POSTER
326	Natalia Ivakhno, Sergey Antsibor and Sergey Zikin	Creation of methods and algorithms of adaptive control in the biotechnical complex of corrective influence on human respiration	4 - Data	ACCEPT POSTER
327	Ekaterina Sharapova and Ruslan Sharapov	Detection of spam using email signatures	4 - Data	ACCEPT POSTER
328	Evgeniy Avdeev	Steady state numerical calculation of the melt-pool shape	3 - Modeling	ACCEPT ORAL
329	Igor Blatov and Elena Kitaeva	On the combination of the Hungarian algorithm and the Kabsch algorithm for solving problems of computational geometry	3 - Modeling	ACCEPT ORAL
332	Elizaveta Rudinskaya and Rustam Paringer	Development of face detection algorithm using combinations of Haar cascades	2 - Imaging	ACCEPT POSTER
334	Valery Zakharov	Fiber-optic power supply monitoring system for autonomous electronic equipment	1 - Optics	ACCEPT POSTER

335	Ksenia Potienko and Andrey Agafonov	Study of the separation process of gases in the microchannel based on the stochastic simulation	3 - Modeling	ACCEPT ORAL
336	Guzel Abdrakhmanova, Elizaveta Grakhova, Grigory Voronkov and Valery Bagmanov	Microstrip antenna design for arrays generating OAM mm-wave radio signals	3 - Modeling	ACCEPT POSTER
340	Artem Mukhin and Rustam Paringer	Development of data structuring algorithm to optimize the classification based on the method of the nearest neighbor.	4 - Data	ACCEPT POSTER
341	Konstantin Serdyukov and Tatyana Avdeenko	Researching of using genetic algorithm for generating data sets and initial debugging of program code	4 - Data	ACCEPT POSTER
342	Ekaterina Shchetinina	On oscillation appearance in one chemical problem	3 - Modeling	ACCEPT POSTER
343	Dmitry Stankevich	Orbital angular momentum acoustic modes demultiplexing by machine learning methods	4 - Data	ACCEPT POSTER
344	Yuri Vashukov	Mathematical modeling of placing the connecting liner process into the hole of a three-layer composite structure	3 - Modeling	ACCEPT POSTER
345	Yuri Astapov	The numerical modeling of indentation process for hyperelastic solids	3 - Modeling	ACCEPT ORAL
346	Alexey Borisov and Evgeniy Myasnikov	Implementation of "Kuznyechik" encryption algorithm using NVIDIA CUDA	4 - Data	ACCEPT ORAL
347	Galina Zaretskaya and Andrey Drozdovskii	The effect of the refractive index contrast on the transmission characteristics of a non-dissipative structure consisting of two identical optical microwaveguides of rectangular cross section	1 - Optics	ACCEPT ORAL
349	Andrey Drozdovskii and Galina Zaretskaya	Investigation of the influence of the geometric and physical parameters on the losses in the optical microwaveguides of rectangular cross section	1 - Optics	ACCEPT POSTER
350	Alex Tishin and Vladimir Gurkin	Development of a mathematical model of molecular-selective gas transfer in a hybrid membrane-adsorption oxygen concentrator	3 - Modeling	ACCEPT POSTER
351	Maksim Markushin, Vsevolod Kolpakov and Sergey Krichevskiy	The study of charged particles kinetics in the electrodes system forming a high-voltage gas discharge	3 - Modeling	ACCEPT POSTER
352	Pavel Gulyaev, Alexey Dolmatov and Vladimir Jordan	Visualization of thermal diffusion instability of a combustion wave in Zeldovich-Barenblatt parameters	3 - Modeling	ACCEPT POSTER
354	Oleg Strashko, Ilja Kuznetcov and Vladimir Yakovlev	Algorithms of the choice of an optimum route of the unmanned aerial vehicle in the conditions of the convective and unstable atmosphere	3 - Modeling	ACCEPT POSTER
355	Viacheslav Antsiperov	Target Identification for photon counting image sensors, inspired by mechanisms of human visual perception.	2 - Imaging	ACCEPT ORAL
356	Dmitry Nesterenko, Anna Lyubarskaya, Maria Kolesnikova and Victor Soifer	The dependence of the image edge detection directivity by Brewster effect on the gradient of inhomogeneities of objects	1 - Optics	ACCEPT POSTER
358	Maxim Gorshkov and Alyona Moskalenko	Synthesis of conductive films based on oxidized carbon nanotubes	1 - Optics	ACCEPT ORAL

359	Evgeny Karpov, Mikhail Semenov and Peter Meleshenko	Lorenz system. Water wheel model with dry friction.	3 - Modeling	ACCEPT ORAL
360	Evgeny Myasnikov	Automatic search for vanishing points on mobile devices	2 - Imaging	ACCEPT POSTER
361	Maria Zablovskaya	Study of polarization transformations of Gauss-Laguerre beams	1 - Optics	ACCEPT POSTER
364	Vladimir Ryazanov	Motion control of an active spacecraft during nanosatellite removal by ion beam	3 - Modeling	ACCEPT ORAL
365	Ruslan Sharapov	Assessment of wind load on billboards	3 - Modeling	ACCEPT POSTER
367	Irina Kozlova and Iliya Bocharov	Microelectronics component designing by Cadence software	3 - Modeling	ACCEPT ORAL
370	Semyon Sofronov, Artyom Nikonorov and Andrei Alekseev	Algorithms of visual inertial odometry for mobile devices	4 - Data	ACCEPT POSTER
371	Evgeny Monin	Forming of three-dimensional optical fields consistent with the superposition of scalar spherical harmonics	1 - Optics	ACCEPT ORAL
372	Andry Sedelnikov, Valeria Rodina and Denis Orlov	Modeling the effect of temperature deformations of large elastic elements on the dynamics of the orbital motion of a small spacecraft	3 - Modeling	ACCEPT ORAL
373	Sergei Pivnev, Vladimir Sidorov and Svetlana Pivneva	Algorithm of realization of the problem of double-arc welding with coated electrodes of different types	3 - Modeling	ACCEPT ORAL
375	Al Aktayeva, Lilyia Davletkireeva, Rozamgul Niyazova and Alimzhan Baikenov	Date Science: Post Quantum Safe Cryptography	4 - Data	ACCEPT ORAL
376	Lyudmila Shamina, Ivan Bratchenko, Dmitry Artemyev, Alexander Moryatov, Julia Starikova, Elena Tupikova, Igor Platonov, Sergey Kozlov and Valery Zakharov	Raman spectroscopy of ascitic fluid from patients with cancer	1 - Optics	ACCEPT ORAL
377	Bakaev Vladislav and Alexander Blagov	The research of approaches to create self-learning expert systems with fuzzy logic	4 - Data	ACCEPT POSTER
379	Nikita Davydov, Alexander Khramov and Artem Nikonorov	Quality assessment of fMRI-diagnostic in neurofeedback training system	4 - Data	ACCEPT POSTER
380	Evgenii Dremov, Sergey Miroshnichenko and Vitalii Titov	Calculation of optimal parameters for aircraft recognition on remote sensing imagery by contour analysis	2 - Imaging	ACCEPT ORAL
381	Valery Zakharov, Georgy Leonovich, Alexander Krutov and Aleksandr Lobah	Simulation of fiber optic sensors of electrical quantities based on Bragg gratings with correction of instrumental errors.	1 - Optics	ACCEPT ORAL

383	Anna Denisova, Lyudmila Kavelenova, Eygeny Korchikov, Alexander Pomogaybin, Nataly Prokhorova, Daria Terentieva, Victor Fedoseev and Nikolay Yankov	On the effective recognition of forest and bushy communities on the base of remotely sensed (RS) data supported by ground studies	2 - Imaging	ACCEPT POSTER
384	Leonid Mestetskiy and Andrei Semenov	Measures to compare the shape of objects in aerospace images	2 - Imaging	ACCEPT POSTER
385	Mikhail Petrov, Oleg Phylonin and Alexey Galanin	Influence of radiation defects in a semiconductor structure on the EMF distribution in the air gap of the gas-discharge chamber	3 - Modeling	ACCEPT ORAL
386	Victor Zhidchenko and Alexander Kovartsev	Parallel algorithm for controlled motion simulation of space tether systems	3 - Modeling	ACCEPT ORAL
387	Grigory Voronkov, Pavel Filatov, Albert Sultanov, Ruslan Kutluyarov, Irina Vinogradova and Igor Kuznetsov	Improving the efficiency of multichannel systems based on the coordination of channel signals	3 - Modeling	ACCEPT ORAL
388	Yulia Khristoforova, Ivan Bratchenko, Lyudmila Shamina, Semen Konovalov, Anastasia Andreeva, Alexandr Moryatov, Dmitry Kassirov, Andrey Orlov, Sergey Kozlov and Valery Zakharov	In vivo Raman and autofluorescence study of the pigmented skin lesions	1 - Optics	ACCEPT ORAL
389	Alina Bavrina, Anna Denisova, Lyudmila Kavelenova, Eygeny Korchikov, Oksana Kuzovenko, Yulia Makarova, Nataly Prokhorova, Daria Terentyeva and Victor Fedoseev	Natural and revitalized grassy ecosystems as biodiversity refuges: on the abilities of remote sensing survey for their detection and study	2 - Imaging	ACCEPT POSTER
390	Andrey Ustinov	Representation of shifted vortex beams of arbitrary order as a combination of nonshifted vortices	1 - Optics	ACCEPT POSTER
392	Yuliya Vybornova and Vladislav Sergeyev	A new watermarking method for vector map data: a study on information capacity of the carrier image	2 - Imaging	ACCEPT ORAL
394	Viktor Blinov, Sagit Valeev, Natalya Kondratyeva, Rinat Karimov, Alexey Kovtunencko and Elena Kuzmina	SUPPORTING THE LIFE CYCLE OF COMPLEX TECHNICAL OBJECT ON THE BASIS OF PREDICTIVE ANALYTICS	4 - Data	ACCEPT ORAL

395	Yann Donon, Rustam Paringer and Alexander Kupriyanov	Image storage optimization and feature calculation on Netezza Database system	4 - Data	ACCEPT ORAL
396	Sagit Valeev, Natalya Kondratyeva, Alexey Kovtunenکو, Marat Timirov and Rinat Karimov	Resource management of a distributed stream data processing system in safety systems of infrastructure objects	4 - Data	ACCEPT ORAL
397	Ruslan Shimansky	The writing and processing of micro-images to check the manufacturing accuracy of precision synthesized holograms	1 - Optics	ACCEPT ORAL
399	Sergey Novikov, Mariya Fedina and Darya Rogach	Linear and nonlinear versions of Phase Retrieval	3 - Modeling	ACCEPT POSTER
401	Maksim Naumov and Alexander Blagov	Heuristic methods for evolutionary strategies in reinforcement learning problems	4 - Data	ACCEPT POSTER
403	Irina Kozlova and Alexey Yerilkin	Design of an optical bending sensor	1 - Optics	ACCEPT POSTER
406	Oksana Mandrikova, Vladimir Geppener and Bogdana Mandrikova	Method of cosmic ray data analysis based on neural networks of vector quantization	4 - Data	ACCEPT ORAL
407	Vladimir Maklashov, Mikhail Piganov and Maxim Petrov	Simulation of transition matrix and strip lines of rf switch	3 - Modeling	ACCEPT POSTER
408	Artem Gaidar and Pavel Yakimov	A survey on driver's drowsiness detection methods	4 - Data	ACCEPT POSTER
409	Sergey Bibikov, Viktoria Kutikova and Artem Nikonorov	Context-aware color correction using neuron networks	4 - Data	ACCEPT POSTER
410	Renata Tolmacheva, Yury Obukhov and Ludmila Zhavoronkova	The determination of phase-coupled channels of EEG signals during cognitive and motor tests	4 - Data	ACCEPT ORAL
411	Mikhail Osipov, Mikhail Limov and Dmitriy Gnutov	Mathematical modeling of the interference seismic sensors.	1 - Optics	ACCEPT POSTER
412	Elena Skatova and Pavel Yakimov	Development of service for recognition of vehicle registration numbers for traffic control system	4 - Data	ACCEPT POSTER
413	Anton Krents, Dmitry Anchikov, Nonna Molevich and Elizaveta Yarusova	Stabilization of broad-area semiconductor lasers by external optical injection	1 - Optics	ACCEPT ORAL
416	Liliia Sapozhnikova and Olga Gordeeva	Application of convolutional neural network for text classification	4 - Data	ACCEPT POSTER
417	Victor Korolkov, Ruslan Shimansky, Vladimir Khomutov, Andrey Seduhin, Ruslan Nasyrov, Valeriy Kiryanov, Alexey Kiryanov and Marina Zavyalova	Prospects for creating a laser nanolithography system for tasks of diffractive optics and nanophotonics	1 - Optics	ACCEPT ORAL

419	Nikolay Ivliev, Vladimir Podlipnov and Dmitry Nesterenko	Formation of microstructures on the surface of a carbazole-containing azopolymer by the action of laser beams	1 - Optics	ACCEPT ORAL
421	Roman Davydov and Valery Antonov	Research and modeling of laser ablation by ultra-short laser pulses for metal targets	1 - Optics	ACCEPT POSTER
422	Marina Nikitina and Yuri Ivashkin	The mobile flatbed expert system of food quality sensory assessment	4 - Data	ACCEPT ORAL
423	Alexey Kovalenko and Yana Demyanenko	Image clustering by autoencoders	2 - Imaging	ACCEPT POSTER
424	Anastasija Lykina, Dmitry Artemyev, Vladimir Kukushkin, Ivan Bratchenko, Sofya Avraamova and Nikolay Aleksandrov	Multivariate analysis of the Raman spectra of biological tissues using regression methods.	1 - Optics	ACCEPT POSTER
425	Vitold Pozhar, Maxim Gaponov, Alexander Machikhin and Sergey Shirokov	Hyperspectral monitoring AOTF-based apparatus	1 - Optics	ACCEPT ORAL
426	Ruslan Brezhnev, Yuriy Maglinets, Ksenia Raevich and Gennady Tsybulsky	Features of the End User Interaction with the Spatial Objects Remote Research System	2 - Imaging	ACCEPT POSTER
427	Valery Antonov, Roman Davydov, Vladimir Maslikov, Dmitry Molodtsov and Alexander Chusov	Mathematical models of operating regimes of flood control facility's system	3 - Modeling	ACCEPT POSTER
428	Dmitrii Velikovskii, Anton Karandin and Maxim Kupreychik	Acousto-optic devices for high-power laser radiation on KGW crystal	1 - Optics	ACCEPT ORAL
429	Gennady Algashev and Olga Soldatova	Investigation of the effectiveness of using the property of neuroplasticity in convolutional networks	4 - Data	ACCEPT POSTER
430	Serguei Murzin, Gerhard Liedl, Robert Bielak and Alexey Melnikov	Conditions improving of laser heating for forming of materials with a ferritic-martensitic structure	1 - Optics	ACCEPT POSTER
431	Kseniya Pogorelskih and Liliya Loganova	Research of parallel algorithms for solving three-diagonal systems of linear algebraic equations on a graphical computing device using various types of memory	4 - Data	ACCEPT POSTER
432	Valeriy Labunets and Ekaterina Ostheimer	INTELLIGENT OFDM TELECOMMUNICATION SYSTEM. PART 1. MODEL OF SYSTEM	4 - Data	ACCEPT ORAL
433	Dmitrii Velikovskii, Anton Karandin and Maxim Kupreychik	Two-axes Acousto-optics Deflector on KGW crystal	1 - Optics	ACCEPT POSTER
434	Gerhard Liedl, Serguei Murzin and Robert Pospichal	Colorization of copper surfaces by nanostructuring with ultrashort pulse laser	1 - Optics	ACCEPT ORAL

435	Valeriy Labunets, Yury Smetanin, Chasovskikh Victor and Ekaterina Ostheimer	INTELLIGENT OFDM TCS. PART 2. MANY-PARAMETER WAVELET AND GOLAY TRANSFORMS	4 - Data	ACCEPT ORAL
436	Anastasia Isaeva and Svetlana Sidorova	Mathematical modeling of metal island films growth initial stages	3 - Modeling	ACCEPT ORAL
437	Sergey Stafeev, Anton Nalimov and Victor Kotlyar	16-sector metalens for tight focusing of laser light	1 - Optics	ACCEPT ORAL
438	Serguei Murzin, Artur Safin and Maxim Blokhin	Creation of ZnO-based nanomaterials using pulse-periodic laser action	1 - Optics	ACCEPT POSTER
439	Yana Tsybina and Anna Aletdinova	Formalization of conceptual requirements for imitative model of loading a machine-tractor fleet	3 - Modeling	ACCEPT ORAL
441	Valeriy Labunets, Denis Komarov, Yury Smetanin, Chasovskikh Victor and Ekaterina Ostheimer	INTELLIGENT OFDM TCS. PART 3. ANTI-EAVESDROPPING AND ANTI-JAMMING PROPERTIES OF SYSTEM, BASED ON MANY-PARAMETER GOLAY TRANSFORMS	4 - Data	ACCEPT ORAL
442	Nadezhda Evdokimova and Vladislav Myasnikov	The image series forgery detection algorithm based on the camera pattern noise analysis	2 - Imaging	ACCEPT POSTER
443	Valeriy Labunets, Martyugin Stepan, Yury Smetanin and Ekaterina Ostheimer	INTELLIGENT OFDM TCS. PART 4. ANTI-EAVESDROPPING AND ANTI-JAMMING PROPERTIES OF SYSTEM, BASED ON MANY-PARAMETER AND FRACTIONAL FOURIER TRANSFORMS	4 - Data	ACCEPT ORAL
445	Vladimir Jordan and Igor Shmakov	The influence of the initiation's conditions of the SH-synthesis of intermetallic compounds on the combustion parameters of the nanoscale layered composition Ti-15.82wt.%Al	4 - Data	ACCEPT ORAL
447	Egor Dmitriev, Alexander Borodinov and Aleksey Maksimov	Automatic detection of constructions using binary segmentation algorithms	2 - Imaging	ACCEPT POSTER
451	Boris Lapin, Constantine Alexeyev, Maxim Yavorsky, Elena Barshak and Dmitriy Vikulin	Topologically charged fields localized on defects in multihelicoidal optical fibers with an alternating twist direction	1 - Optics	ACCEPT ORAL
455	Dmitry Murashov, Alexei Morozov and Fedor Murashov	A technique for localizing and identifying concealed objects in terahertz images based on mutual information maximization	2 - Imaging	ACCEPT ORAL
457	Serguei Murzin, Nikolay Kazanskiy, Gerhard Liedl and Gerald Humenberger	Testing of diffractive optical element as part of specific CO2 laser equipment for metallic materials modification	1 - Optics	ACCEPT POSTER
458	Darya Prokopova, Evgeny Vorontsov, Svetlana Kotova and Nikolay Losevsky	Diffractive Optical Elements Optimization Aimed to Increase the Longitudinal Resolution of Microscopes	1 - Optics	ACCEPT ORAL
460	Kseniya Efimova, Sergei Kishkin, Daria Prokopova and Svetlana Kotova	Research and development of hardware and software complex device for generating of spiral beams of light	1 - Optics	ACCEPT ORAL

461	Artyom Makovetskii, Sergei Voronin, Vitaly Kober and Aleksei Voronin	An algorithm of non-rigid objects registration	2 - Imaging	ACCEPT ORAL
462	Ekaterina Chernova, Petr Polezhaev, Alexander Shukhman and Yury Ushakov	Security event data collection and analysis in large corporate networks	4 - Data	ACCEPT ORAL
463	Vage Taamazyan	Calibrated Polarized Light Field for Object 3D Scanning	1 - Optics	ACCEPT ORAL
465	Pavel Gulyaev, Vladimir Jordan and Julia Panchenko	Trace-analysis of a combustion wave thermal instability using high-speed video images: experiment and simulation modeling	3 - Modeling	ACCEPT POSTER
466	Konstantin Vytovtov, Elizaveta Barabanova and Michail Igumnov	Physical foundation of optical smart antenna based on metamaterial and lithium niobate	1 - Optics	ACCEPT ORAL
467	Alexander Titov and Alexander Khoperskov	Verification of the Regional climate model RegCM v4.5 for the Lower Volga	3 - Modeling	ACCEPT ORAL
468	Evgeni Bezus, Elena Kadomina and Leonid Doskolovich	Adaptive spatial resolution in Fourier modal method for 1D- periodic structures implemented as a coordinate transform based on the error function	1 - Optics	ACCEPT POSTER
469	Yaroslav Skidanov	Analysis of the possibility of increasing the resolution on the basis of apodization for partially coherent optical systems in the presence of aberrations	1 - Optics	ACCEPT POSTER
470	Aleksandra Danilenko and Ivan Zhdanov	A multiuser web-interface for solution of systems of nonlinear equations	4 - Data	ACCEPT POSTER
471	Andrey Sosnovsky	Evaluation of the multilooking effectiveness in interferometric SAR data processing	2 - Imaging	ACCEPT POSTER
472	Anna Klikunova and Alexander Khoperskov	Creating a digital elevation model for interfluve	2 - Imaging	ACCEPT POSTER
473	Dmitry Murashov, Yury Obukhov, Ivan Kershner and Mikhail Sinkin	Algorithm for detecting diagnostic events in video channel of video-EEG monitoring data	2 - Imaging	ACCEPT POSTER
474	Artem Semkin, Dmitriy Dudnik, Viktor Dolgirev and Sergey Sharangovich	Experimental investigation of the holographic formation of photon structures by Bessel-like light beams in photopolymer materials	1 - Optics	ACCEPT ORAL
475	Mikhail Stepanov, Vladimir Koval, Olga Torgashova and Olga Pimenova	Mathematical modelling of distributed control system for flat plat's temperature field by GAMMA-3 software	3 - Modeling	ACCEPT ORAL
476	Elizaveta Barabanova, Konstantin Vytovtov and Trong Thanh Nguyen	The control system elements of the new generation optical switching cell	1 - Optics	ACCEPT ORAL
479	Andrew Kalach, Dmitriy Ponomarev and Elena Sushko	Application of artificial neural networks on the basis of multilayered perseptron for modelling of the sorbent adsorptive activity	3 - Modeling	ACCEPT ORAL
481	Egor Dmitriev and Vladislav Myasnikov	Posibility estimation of 3D scene reconstruction from multiple images	2 - Imaging	ACCEPT POSTER

482	Leonid Lebedev and Anastasia Shakhlan	Optimizing the computational complexity of lossy compression algorithms of hyperspectral images	2 - Imaging	ACCEPT POSTER
483	Artem Semkin, Dmitriy Dudnik, Ksenya Gusachenko, Sergey Sharangovich and Irina Kvasova	Investigation of the characteristics of the system of waveguide channels formed in PDLC with inhomogeneity of the amplitude-phase distribution of the forming field	1 - Optics	ACCEPT ORAL
484	Danil Polukarov and Alexandr Bogdan	Using the cluster "Sergey Korolev" for modelling computer networks	4 - Data	ACCEPT POSTER
486	Daria Smuseva, Alexey Rolich, Leonid Voskov and Ivan Malakhov	Big Data, Internet of Things, Augmented Reality: technology convergence in visualization issues	4 - Data	ACCEPT ORAL
488	Dmitriy Prokhorov, Vladimir Shengurov, Sergey Denisov, Mikhail Dorokhin, Artem Rykov, Anton Zdoroveyshchev, Mikhail Ved', Natalya Baidakova and Andrey Zaycev	Light-emitting structures based on Ge/Si(001) layers grown by the HW CVD method for silicon optoelectronics	1 - Optics	ACCEPT ORAL
489	Vladimir Mokshin, Pavel Tutubalin and Leonid Sharnin	Evolutionary methods in modeling behaviour of complex system	4 - Data	ACCEPT ORAL
490	Elena Barshak, Constantine Alexeyev, Dmitriy Vikulin, Boris Lapin and Maxim Yavorsky	Types of mode dispersion of optical vortices in twisted step-index optical fibers	1 - Optics	ACCEPT ORAL
491	Valery Bogdanovich and Mikhail Giorbelidze	Mathematical simulation of particle impact on a fixed surface in the formation of powder coatings	3 - Modeling	ACCEPT ORAL
492	Valery Bogdanovich and Mikhail Giorbelidze	Calculation of residual stresses in plasma spray coatings taking into account the build-up process	3 - Modeling	ACCEPT POSTER
493	Mikhail Arpishkin, Alexey Vulfin, Vladimir Vasilyev and Andrey Nikonov	Technological process monitoring system on the basis of artificial intelligence technology	4 - Data	ACCEPT POSTER
494	Mark Bulygin, Maya Gayanova, Alexey Vulfin, Anastasiya Kirillova and Ruslan Gayanov	Application of a deep convolutional neural network in the images colorization problem	4 - Data	ACCEPT ORAL
495	Alexei Chirkov, Taiming Luo and Kirill Egorov	Modeling heat transfer in a supercritical carbon dioxide flow with strongly variable thermophysical properties	3 - Modeling	ACCEPT POSTER
496	Mikhail Gurin, Alexey Vulfin, Vladimir Vasilyev and Andrey Nikonov	Intrusion detection system on the basis of data mining algorithms in the industrial network of automated process control system	4 - Data	ACCEPT ORAL
498	Azamat Sakhopov and Pavel Yakimov	Service development for vehicles recognition and accounting to the checkpoint	4 - Data	ACCEPT POSTER

499	Radmir Battalov, Maya Gayanova, Andrey Nikonov, Ruslan Gayanov and Viktoriya Berkholts	System for in-depth analysis of network traffic based on artificial intelligence technologies	4 - Data	ACCEPT ORAL
500	Ruslan Ahmedyanov, Klara Tagirova, Alexey Vulfin, Viktoriya Berkholts and Ruslan Gayanov	Intelligent system for diagnosing the welded joints quality on the basis of the radiographic method	4 - Data	ACCEPT ORAL
501	Anastasia Kirillova, Vladimir Vasilyev, Andrey Nikonov and Viktoriya Berkholts	Decision support system for ensuring information security of an automated process control system	4 - Data	ACCEPT ORAL
503	Oksana Kuznetsova and Igor Burkin	On some methods for generating extremely multistable systems	3 - Modeling	ACCEPT ORAL
504	Vadim Moshkin, Nadezhda G. Yarushkina, Gelya Ishmuratova and Ilya Andreev	Hybridization of fuzzy time series and fuzzy ontologies in the diagnosis of complex technical systems	4 - Data	ACCEPT ORAL
505	Igor Kilbas and Rustam Paringer	Scene recognition accuracy and performance comparison of CNNs	4 - Data	ACCEPT POSTER
507	Viktoriya Berkholts, Murat Guzairov, Arkadiy Frid and Anastasia Kirillova	Structure of protected system for collecting, storage and processing of telemetry data	4 - Data	ACCEPT ORAL
508	Liliya Kosygina	A new calculation technique of coefficients of the multi-parametric M. William's expansion based on finite element method	3 - Modeling	ACCEPT POSTER
509	Innokentiy Semushin and Yulia Tsyganova	Dynamical physically structured data modeling vs. classical time series analysis	4 - Data	ACCEPT ORAL
510	Nikolay Artamonov, Pavel Yakimov and Artem Nikonorov	Performance comparison of mobile processors in the problems of image classification and reconstruction	4 - Data	ACCEPT POSTER
511	Maxim Polyakov	Modeling of brightness temperature in biological tissue	3 - Modeling	ACCEPT ORAL
512	Elina Nepomnyashchaya and Elena Velichko	Spectrometry of molecular interactions in clusters	1 - Optics	ACCEPT POSTER
514	Irina Moshkina, Eugene Egov and Anton Romanov	Applying method of phase plane to a fuzzy trend when predicting the project metrics presented by time series	3 - Modeling	ACCEPT ORAL
515	Alexander Biryukov and Mark Shleenkov	The lifetime of the entangled states of interacting qubits in external fields and the thermostat calculated by path integral approach.	3 - Modeling	ACCEPT POSTER
516	Victor Kobernichenko, Andrey Sosnovsky and Nina Vinogradova	The problem of quality assessing for the methods of coherence maps calculation in InSAR remote sensing of the Earth data processing	2 - Imaging	ACCEPT ORAL
517	Dmitry Murashov, Alexey Berezin and Ekaterina Ivanova	Measuring parameters of texture from images obtained in raking light	2 - Imaging	ACCEPT ORAL

518	Natalya Sevastianova, Nina Vinogradova and A. Sosnovsky	Multi-channel data storage format definition for visualization tasks on the example of SPOT-4 images	2 - Imaging	ACCEPT POSTER
519	Alexey Drobyshev, Pavel Golovinski, Mikhail Preobrazhenskii and Evgeny Mikhin	The electron tunneling from image potential in a weak electric field	1 - Optics	ACCEPT POSTER
520	Alexandra Shibaeva and Olga Soldatova	Comparative analysis of subset splitting methods for training data in decision tree ensembles	4 - Data	ACCEPT POSTER
523	Evgeny Maiorov, Iliya Ludan, Johan David Motta Santana and Oleg Saprykin	The creation of the city traffic flows microscopic model based on SUMO simulation system	3 - Modeling	ACCEPT POSTER
525	Vadim Turlapov, Leonid Lebedev and Vladimir Gromov	Analysis and object markup of hyperspectral images for machine learning methods	2 - Imaging	ACCEPT POSTER
526	Egor Dmitriev and Vladislav Myasnikov	Equivalence relation configuration study in the image description and analysis problem	2 - Imaging	ACCEPT ORAL
527	Stepan Onisich and Olga Soldatova	Comparative analysis of the effectiveness of the multilayer perceptron learning algorithm for solving the classification problem	4 - Data	ACCEPT POSTER
529	Vladimir Mokshin, Pavel Tutubalin, Alexandr Kirpichnikov and Alexei Soiko	Simulation and optimization of the cargo terminal in the Anylogic environment	3 - Modeling	ACCEPT POSTER
532	Ekaterina Savchenko, Elina Nepomnyashchaya and Elena Velichko	Combined technique based on light scattering for investigation of the colloid's parameters	1 - Optics	ACCEPT ORAL
533	Anton Ekimenko, Ekaterina Ekimenko and Sergei Shavetov	Application of vision systems to improve the effectiveness of monitoring compliance with technical safety requirements at industrial facilities.	2 - Imaging	ACCEPT POSTER
534	Pavel Pahomov, Dmitry Vasin and Gromov Vladimir	Elimination of information redundancy of hyper spectral raster images by method "well adapted" basis	2 - Imaging	ACCEPT ORAL
536	Ekaterina Ekimenko, Anton Ekimenko and Anatoly Demin	Formation and identification of cloud structure data by digital holography methods.	1 - Optics	ACCEPT POSTER
541	Alena Goncharova, Iliya Safonov and Ivan Romanov	Regression model for selecting the correction parameter for images damaged by backlighting	2 - Imaging	ACCEPT ORAL
543	Kirill Egorov, Alexsey Chirkov, Konstantin Ganeev and Timur Zuev	Model of a real cycle of a power installation with a real-gas working fluid	3 - Modeling	ACCEPT POSTER
544	Vladimir Podlipnov and Sergey Karpeev	Investigation of the formation of hybrid polarized laser beams using a four-sector polarization converter	1 - Optics	ACCEPT ORAL
545	Vladimir Podlipnov, Nikolay Ivliev and Roman Skidanov	A compact imaging hyperspectrometer	1 - Optics	ACCEPT POSTER

548	Kamil Karimov, Yuri Lipatov and Ramazan Khaybullin	Model of autostereoscopic laser display with a wide viewing angle for outdoor use	1 - Optics	ACCEPT POSTER
549	Viacheslav Zheleznov, Dmitry Kuzmin, Sergey Odinkov, Alexander Betin, Nikolay Nikonorov and Sergey Ivanov	Exposure characteristics research of PTR glasses when recording diffraction gratings using a femtosecond laser in IR and UV wavelenghts	1 - Optics	ACCEPT ORAL
550	Andrew Kalach, Andrey Kravchenko and Andrey Zenin	Dynamic model of control of functioning of legal users of information systems	3 - Modeling	ACCEPT ORAL
551	Safaa Mohammed Ridha Hussien Hussien, Sergey Kharitonov, Nikolay Kazanskiy and Vladimr Pavelyev	Simulation of the interaction of electrons and photons in graphene in the strong coupling approximation	1 - Optics	ACCEPT POSTER
554	Olga Kiryanova, Aleksey Chemeris and Irek Gubaidullin	Simulation of primer search in the DNA chain	3 - Modeling	ACCEPT POSTER
555	Igor Rysarev, Alexander Kupriyanov and Dmitriy Kirsh	Research and analysis of messages of users of social networks using BigData technology	4 - Data	ACCEPT POSTER
561	Elizaveta Gladchenko, Oleg Saprykin and Aleksey Tikhonov	Evolutionary approach for urban freight transportation optimization	4 - Data	ACCEPT POSTER
562	Aleksei Kumarin and Ilya Kudryavtsev	SoC opportunities for boosting SDR GNSS performance	4 - Data	ACCEPT POSTER
563	Irina Matveeva and Oleg Myakinin	Monte Carlo modeling of Raman scattering in a multi-layered tissue	3 - Modeling	ACCEPT POSTER
564	Alexander Shuravin and Sergey Vologdin	Comparison of the characteristics of the genetic algorithm and the method of coordinate search to optimize the temperature regime of the premises	4 - Data	ACCEPT ORAL
565	Alina Mullayanova, Yuliya Mayakova, Kamila Koledina, Irek Gubaidullin, Ravil Khusnutdinov and Azamat Abdrahmanov	Kinetics and mechanism of the methylation reactions of anilines with dimethylcarbonate	3 - Modeling	ACCEPT POSTER
570	Muhammad Ali Butt	Optical elements based on silicon photonics	1 - Optics	ACCEPT POSTER
571	Roman Zakurdaev and Irina Chernetskaya	Method of manual symmetrication of electric networks	3 - Modeling	ACCEPT ORAL
572	Kirill Egorov, Bronislav Novitskiy, Mihail Kolosov, Nikolay Malastowski and Larisa Stepanova	Numerical modeling of ventilation and air conditions systems of buildings for massive culture and sport activities	3 - Modeling	ACCEPT ORAL
575	Vasilii Kopenkov	Combined usage of the optical and radar remote sensing data in territory monitoring tasks	2 - Imaging	ACCEPT POSTER

576	Andrey Kosinov, Adilbek Erkimbaev, Georgii Kobzev and Vladimir Zitserman	Ontology as a integration means among stand-alone databases on the properties of nanomaterials	4 - Data	ACCEPT ORAL
577	Michael Bolotov, Vadim Pechenin and Nikolay Ruzanov	Neural recognition model surfaces of machine parts based on the results of the optical scanning	2 - Imaging	ACCEPT POSTER
579	Sergey Filonov, Konstantin Aksyonov and Elena Smoliy	Ant algorithms application for factory logistics with multiple waypoint routes	4 - Data	ACCEPT ORAL
581	Natalia Kravtsova, Rustam Paringer and Alexander Kupriyanov	Development of an algorithm for forming a set of informative regions of a small-size spatial spectrum	4 - Data	ACCEPT POSTER
583	Yuriy Kropotov, Aleksey Belov and Aleksander Proskuryakov	Increasing the signal / acoustic interference ratio in telecommunications of audio exchange by adaptive filtering methods	4 - Data	ACCEPT POSTER
584	Yuriy Kropotov, Aleksey Belov, Aleksandr Kolpakov and Aleksander Proskuryakov	The syllable intelligibility in the system of information transmission by speech signals depending on the intensity of acoustic noise	4 - Data	ACCEPT POSTER
585	Marat Enikeev, Marat Fazlytdinov, Leniza Enikeeva and Irek Gubaydullin	The forecast of water content on the wells designed to drilling by methods of machine learning	4 - Data	ACCEPT ORAL
586	Andrey Mykhin and Igor Rytsarev	determining the proximity of groups in social networks based on text analysis using big data.	4 - Data	ACCEPT POSTER
588	Kirill Zeyde, Vadim Sharov and Alexander Malkin	Refinements to the microwave waveguide material parameters measurements. Case study.	1 - Optics	ACCEPT POSTER
590	Igor Ischuk and Alexey Dolgov	Method of classification of technogenic objects on the basis of construction of multilayer thermal tomograms	2 - Imaging	ACCEPT ORAL
593	Svetlana Kotova, Aleksandra Mayorova, Daria Prokopova and Sergey Samagin	Tunable liquid crystal astigmatic plate	1 - Optics	ACCEPT ORAL
594	Vladimir Burdin and Evgenia Eremchuk	Longhaul few mode fiber optic link with differential mode delay compensation online amplifiers	1 - Optics	ACCEPT ORAL
595	Igor Bychkov, Gennady Oparin, Alexander Feoktistov, Ivan Sidorov, Sergei Gorsky, Roman Kostromin and Alexei Edelev	Heterogeneous distributed computing environment for solving large-scale problems of energy security research	4 - Data	ACCEPT ORAL
596	Maksim Gapeev, Yury Senkevich, Olga Lukovenkova and Alexandra Solodchuk	Method for identification of geopulses to include into the Geophysical Signal Catalogue	4 - Data	ACCEPT ORAL

598	Gregory Blagodatsky, Sergej Vologdin, Maksim Gorohov and Denis Perevedencev	Method of knowledge base training of intellectual real - time system based on the algorithm of decision tree	4 - Data	ACCEPT ORAL
599	Artem Nikonorov, Maksim Petrov, Sergei Bibikov, Viktoria Kutikova, Roman Skidanov, Andrey Alekseyev and Nikolay Kazanskiy	Multi-aperture systems on the base of diffractive lens and deep neural networks	4 - Data	ACCEPT POSTER
600	Sergey Degtyarev, Dmitry Savelyev and Svetlana Khonina	Metalens for creation of the longitudinally polarized photonic needle	1 - Optics	ACCEPT ORAL
601	Dmitriy Kirsh	Crystal lattice identification in G6 space	4 - Data	ACCEPT POSTER
602	Igor Rytsarev, Rustam Paringer and Alexander Kupriyanov	Analysis of components to identify semantic proximity and analyzing changes in position in space in tasks of content analysis of social networks	4 - Data	ACCEPT POSTER
604	Alexander Hodakov, Vitaliy Smirnov, Viacheslav Sergeev and Andrey Gavrikov	Simulation of thermoelectric processes in the semiconductor structure of a solar cell	3 - Modeling	ACCEPT POSTER
605	Kirill Zeyde, Dmitriy Pirozhkov, Alisa Vardugina and Nikita Yandovski	Perturbation cluster method for anisotropy modeling.	3 - Modeling	ACCEPT ORAL
606	Maksim Marchukov and Yegor Goshin	Comparison of feature-based and featureless registration methods for image formed by Fresnel lens	4 - Data	ACCEPT POSTER
607	Mikhail Leontev, Viktoriia Islenteva, Aleksandr Mikheev, Kirill Sviatov and Sergey Sukhov	The problem of neural networks communication	4 - Data	ACCEPT POSTER
608	Anton Bourdine, Oleg Delmukhametov and Vladimir Burdin	Computation of precision spatial positioning scheme for mode multiplexing system channels over 16-LP-mode graded-index optical fiber with asymmetrical ellipticity geometry of 42-um core	1 - Optics	ACCEPT ORAL
609	Anton Bourdine, Bratchenko Ivan, Dmitry Artemyev, Taisiia Slivkova, Ivan Karptsov and Alexander Evtushenko	Research of optical fiber core end lensed microstructure influence on semiconductor laser emission parameters	1 - Optics	ACCEPT POSTER
611	Elena Korsakova, Natalya Muftahitdinova, Ivan Kashuba, Alexandr Korsakov and Liya Zhukova	Silver halide IR fibre with extra small diameter	1 - Optics	ACCEPT POSTER

612	Alexei Meshalkin, Vladimir Podlipnov, Andrey Ustinov and Elena Achimova	Analysis of diffraction efficiency of phase gratings in dependence of duty cycle and depth	1 - Optics	ACCEPT POSTER
614	Roman Kozinets, Vladimir Berikov, Igor Pestunov and Sergey Rylov	A method for similarity-based decision tree induction in the problem of recognition of tomographic images	4 - Data	ACCEPT ORAL
615	Vladislav Neverov and Alexander Danilin	Simulation of the interaction of the primary microwave converter with a control object based on the laws of geometric optics	3 - Modeling	ACCEPT POSTER
616	Maximilian Khotilin, Natalia Kravtsova, Rustam Paringer and Alexander Kupriyanov	Technology automatic characteristics of the primary colors of the image and counting the number of objects	4 - Data	ACCEPT POSTER
617	Elena Kozlova	Comparative modeling of spiral zone plates with a relief from silver and silica glass	1 - Optics	ACCEPT ORAL
618	Viktor Sowelnikov and Pavel Yakimov	Development and research of multiple object tracking algorithm using multiple cameras.	4 - Data	ACCEPT POSTER
621	Ruslan Almakaev and Sergey Koledin	Construction of a mathematical model of the catalytic reaction using a perceptron with one input layer	3 - Modeling	ACCEPT POSTER
622	Mikhail Osipov and Oleg Chekodaev	Optimization of the process of 3D visualization of the objects model of the urban environment generated on the basis of the attribute information of the digital map	4 - Data	ACCEPT ORAL
623	Evgeniy Andreev, Kseniya Andreeva, Leonid Doskolovich and Dmitry Bykov	Design of refractive optical elements for collimated beam shaping	1 - Optics	ACCEPT ORAL
625	Vladislav Zaitsev and Sergey Stafeev	The effect of refractive index on focusing with a triangular prism	1 - Optics	ACCEPT POSTER
626	Vladimir Sirochenko	Numerical simulation of two-dimensional viscous heat-conducting fluid flows in irregular regions	3 - Modeling	ACCEPT POSTER
627	Denis Pribavkin and Pavel Yakimov	Methods for emotions, mood, gender and age recognition	4 - Data	ACCEPT POSTER
628	Alena Musina, Ravil Uzayanbaev and Irek Gubaydullin	Simulation of the process of thermal decomposition of propane and propane-propylene fraction	3 - Modeling	ACCEPT POSTER
630	Anastasiya Peksheva	Problems of nonlinear fracture mechanics: construction of eigenfunctions in a nonlinear eigenvalue problem using the small parameter method	3 - Modeling	ACCEPT POSTER
631	Valentina Burmistrova, Alexander Butov, Maxim Volkov and Yuliya Pchelkina	some problems for the processes with compensation of the change-point event	3 - Modeling	ACCEPT ORAL
634	Valentina Burmistrova, Alexander Butov, Maxim Volkov, Mariya Moskvicheva and Anatoly Kovalenko	Some approaches of estimation of the stopping time of the cross-boundary event for the process with change-point	3 - Modeling	ACCEPT POSTER

636	Dmitry Kuzmin, Viacheslav Zheleznov, Sergey Odinokov, Alexander Betin, Nikolay Nikonorov and Sergey Ivanov	Recording of diffraction optical element in the surface layer of PTR glass by means of a femtosecond laser	1 - Optics	ACCEPT POSTER
638	Alexander Shustanov and Pavel Yakimov	A Novel Deep Learning Approach to Image Segmentation	4 - Data	ACCEPT POSTER
642	Alexandra Savelyeva and Elena Kozlova	Simulation of laser light focusing by dielectric nanocylinder with metal core	1 - Optics	ACCEPT POSTER
643	Inna Rusanova	Investigation of retinal pathology in diabetic retinopathy using fractal analysis and binary transformation	4 - Data	ACCEPT ORAL
644	Vladislav Klyuev and Alexander Kupriyanov	Improving the performance of algorithms for building decision trees for object classification	4 - Data	ACCEPT POSTER
645	Inna Rusanova	Fractal complexity of the chaotic rhythms of EEG signals of real and imagined movements of the hands	4 - Data	ACCEPT POSTER
648	Yury Kapitonov, Pavel Shapochkin, Yury Petrov, Vyacheslav Lovtcius, Sergey Eliseev and Yury Efimov	Diffraction from excitonic diffraction grating	1 - Optics	ACCEPT POSTER
649	Andrey Viktorenkov and Pavel Yakimov	The study of the use of photogrammetry to analyze the characteristics of the object surface	4 - Data	ACCEPT POSTER
650	Muhammad Ali Butt	Designing of a 1 x 8 Optical power splitter based on coupled mode theory	1 - Optics	ACCEPT POSTER
651	Vladimir Sokolov	Academician Vladimir Shorin and Computer Optics	1 - Optics	ACCEPT ORAL
652	Evgeny Petrov and Natalia Kharina	Restoration of the distorted frames of video	2 - Imaging	ACCEPT POSTER
653	Sergey Odinokov	To the 75th anniversary of professor Grigorii Isaevich Greisukh	1 - Optics	ACCEPT ORAL
657	Kseniya Andreeva, Evgeniy Andreev, Dmitry Bykov and Leonid Doskolovich	Design of refractive optical elements for generating prescribed illuminance distribution and wavefront	1 - Optics	ACCEPT POSTER
658	Elena Medvedeva and Alena Evdokimova	Improving the accuracy of detecting the edges of textural objects in remote sensing images	2 - Imaging	ACCEPT POSTER
659	Dmitriy Kirsh	Big Data technology application for crystal lattice reconstruction by images of projections	4 - Data	ACCEPT POSTER
660	Vadim Vasilev and Roman Skidanov	Imaging system based on generalized harmonic lenses	1 - Optics	ACCEPT POSTER
661	Normuhammad Ravshanov and Utkir Saidov	Direct and inverse problems to study the process of ion solutions filtering in porous medium	3 - Modeling	ACCEPT ORAL
662	Stanislav Abulhanov, Nikolay Kazanskiy and Yuri Strelkov	The roughness influence of the secondary optics on the operational properties of the projector	1 - Optics	ACCEPT POSTER
663	Stanislav Abulhanov and Sergey Poletaev	Virtual roughness pattern of the optical surface	1 - Optics	ACCEPT POSTER

668	Alexey Chulichkov	Subjective modeling of image shape	2 - Imaging	ACCEPT ORAL
670	Anton Nalimov and Victor Kotlyar	Formation of a polarization vortex with reverse energy flow	1 - Optics	ACCEPT POSTER
671	Daria Kalinkina, Alexey Kovalev and Victor Kotlyar	Impact of the evanescent waves on the backflow of power in the near field	1 - Optics	ACCEPT ORAL
673	Eldar Miftakhov	Simulation of a continuous isoprene polymerization process on a neodymium-containing catalytic system in a cascade of reactors	3 - Modeling	ACCEPT ORAL
675	Liana Yedigeyeva and Alexander Avramenko	Tethered system Phobos - orbital space station.	3 - Modeling	ACCEPT POSTER
677	Stanislav Abulhanov, Nikolay Kazanskiy, Sergey Popov, Nikolay Ivliev and Vladimir Podlipnov	Device for optical control of the internal pipe surface	1 - Optics	ACCEPT POSTER
678	Dmitry Vasin, Sergey Rotkov and Vladimir Gromov	Geometric modeling of raster images of documents with a weakly formalized description of objects	2 - Imaging	ACCEPT POSTER
679	Vadim Dudorov and Anna Eremina	Computer correction of turbulent distortions using multi-aperture systems	1 - Optics	ACCEPT ORAL
680	Vadim Dudorov, Anna Eremina and Yury Mikhailov	Visualisation of the turbulent inhomogeneities for passive Crosswind Profiling	1 - Optics	ACCEPT POSTER