

November, 11						
	Drozдова Vera, Khazankin Grigori	Welcoming speech of the organizing committee of the symposium		Siberian State University of Telecommunications and Information Science, IEEE Siberia Section		11.11.2022 12:00
1	Alexey Romanyuta	Shared Memory-based Algorithms for MPI Irregular Collective Operations	scatterv, gather, allgather, collective operations, mpi, computer systems	Siberian State University of Telecommunications and Information Science	Mikhail Kurnosov (Dr., Prof.)	11.11.2022 12:15
2	Dmitrii Kaznacheev, Valery Kanev, Yuliya Shevtsova, Aleksey Poletaikin, Tatiana Monastyrskaya	Digital Transformation of Educational Activities of the University: Communicative and Organizational Aspect	digital transformation, communication-organizational aspect, educational activities, digital culture, digitalization of society, digital competencies, constructive approach	Siberian State University of Telecommunications and Information Science	Mikhail Kurnosov (Dr., Prof.)	11.11.2022 12:30
3	Ulyana Pavlova, Valerii Boldakov	Improving Multihead Finite State Machine With Transformer Neural Network	transformer, classification, outlier prediction, finite state automaton, prediction, time series analysis, machine learning, neural network	Siberian State University of Telecommunications and Information Science	Mikhail Kurnosov (Dr., Prof.)	11.11.2022 12:45
4	Evgeny Myasnikov	Fusion of spectral and texture features for hyperspectral data clustering	feature fusion, clustering, segmentation, hyperspectral image, dimensionality reduction	Samara National Research University	Mikhail Kurnosov (Dr., Prof.)	11.11.2022 13:00
5	Anton Agafonov	Adaptive Traffic Light Control Using a Distributed Processing Approach	traffic signal control, adaptive control, intelligent transportation systems, big data, spark, sumo	Samara National Research University	Mikhail Kurnosov (Dr., Prof.)	11.11.2022 13:15
6	Anton Agafonov, Andrew Ponomarev	Localization of Ontology Concepts in Deep Convolutional Neural Networks #2	explainable ai, xai, neuro-symbolic artificial intelligence, ontologies, neural networks	St. Petersburg Federal Research Center of the Russian Academy of Sciences (SPC RAS)	Mikhail Kurnosov (Dr., Prof.)	11.11.2022 13:30
7	Andrew Ponomarev	Maintaining Driver's Alertness with Linear Contextual Bandits	driver support systems, driver monitoring, adaptive interventions, contextual bandits	St. Petersburg Federal Research Center of the Russian Academy of Sciences (SPC RAS)	Mikhail Kurnosov (Dr., Prof.)	11.11.2022 13:45
8	Mikhail Fedorovich Mitsik, Byrdina marina	Information modeling of products in the form of a flexible multilayer shell with a network of sensors	information modeling, shell structures, intelligent textiles, composite materials, smart sensors	Don State Technical University	Mikhail Kurnosov (Dr., Prof.)	11.11.2022 14:00
9	Mihail Sinadskij, Ol'ga Sinadskaya	Experimental Stand for the Study of Analytical Methods of Contact Tracing in Context of Anti-Epidemic Measures Based on the Use of Information and Analytical Security Systems and Synthesized Data Arrays	synthesis of arrays of billing information, information-analytical security systems	UrFU named after the first President of Russia B.N. Yeltsin	Fionov Andrey (Dr., Prof.)	11.11.2022 14:15
10	Anastasia Pushkareva	Application of Prony Method in Tasks of Measurement Signals Compression	signal compression, prony method, restoration error, standard deviation	Penza State Technological University	Fionov Andrey (Dr., Prof.)	11.11.2022 14:30
11	Fedor Ivanov, Ilya Chetverikov, Alexey Kreshchuk, Ilya Timokhin	Successive Cancellation Creeper Decoding of Polar Codes	polar codes, successive cancellation decoding, fano decoding, stack decoding, creeper algorithm.	Higher School of Economics	Fionov Andrey (Dr., Prof.)	11.11.2022 14:45
12	Mariya Shulika	The concept of the knowledge base of threats to cyber-physical systems based on the ontological approach	cyber-physical system, internet of things, threat, security, ontology	Southern Federal University	Fionov Andrey (Dr., Prof.)	11.11.2022 15:00
13	Elena Basan	Application of an ontological model for the analysis of UAV cybersecurity	unmanned aerial vehicle, threat, vulnerability, ontology, concept, structure	Southern Federal University	Fionov Andrey (Dr., Prof.)	11.11.2022 15:15
14	Anton Rakitskiy	Efficient Algorithms for Time Series Prediction Method	information theory, time series prediction, algorithms, optimizations, universal coding	Siberian State University of Telecommunications and Information Science	Fionov Andrey (Dr., Prof.)	11.11.2022 15:30
15	Evgeny Marshakov, Anna Fominykh, Alexey Frolov	Polar Codes with Dynamic Frozen Bits for Gaussian Multiple Access Channel	polar codes, multiple access channel	Skolkovo Institute of Science and Technology	Fionov Andrey (Dr., Prof.)	11.11.2022 15:45
16	Daria Ustinova, Alexey Frolov, Kirill Andreev	Unsourcesd Random Access Pilot-Assisted Polar Code Construction for MIMO Channel	internet of things, unsourced random access, massive mimo	Skolkovo Institute of Science and Technology	Fionov Andrey (Dr., Prof.)	11.11.2022 16:00
17	Grigoriy Anatol'evich Kabatyanskiy, Marcel Fernandez, Ying Miao	A Novel Support Recovery Algorithms and Its Applications to Multiple-Access Channels	compressed sensing, vector support recovery, separating codes, coding for noisy adder channel.	Skolkovo Institute of Science and Technology	Fionov Andrey (Dr., Prof.)	11.11.2022 16:15
18	Aleksey Kuvshinov, Fedor Ivanov	On the woven-like concatenation of LDPC codes	error correcting codes, concatenated codes, ldpc, error reducing codes, low-rate codes, optimization of codes	Higher School of Economics	Fionov Andrey (Dr., Prof.)	11.11.2022 16:30
19	Artemiy Rudzyanskiy, Fedor Ivanov	On the improvement of McEliece cryptosystem based on LDPC codes	mceliece cryptosystem, ldpc codes, code-based cryptography, belief-propagation decoder	Higher School of Economics	Fionov Andrey (Dr., Prof.)	11.11.2022 16:45
November, 12						
20	Alexander Blagodarnyi, Roman Bychkov, Stanislav Krikunov, Andrey Ivanov	Tensor-Assisted CNN to Estimate Channel in Massive MIMO	channel estimation, machine learning, massive mimo	Skolkovo Institute of Science and Technology	Kalachikov Aleksandr (PhD)	12.11.2022 14:00
21	Saule Baktykereeovna Zhanayeva	Data preparation for neural network of predicting malfunctions in a mobile network	neural network, data preparation, mobile, prediction, malfunctions	Siberian State University of Telecommunications and Information Science	Kalachikov Aleksandr (PhD)	12.11.2022 14:15
22	Igor Yakushev	Analysis of MIMO Throughput Measurement Method in Almost Perfect Real Channel	ieee 802.11, mimo, mcs, wi-fi, antenna technology, attenuator, splitter, traffic generator	Siberian State University of Telecommunications and Information Science	Kalachikov Aleksandr (PhD)	12.11.2022 14:30

23	Maksim Vakhitov, Dmitrii Fomin, Nikolay Dudarev, Denis Klygach	Resonant Method for Measuring the Electrophysical Properties of Powder Materials in the Microwave Frequency Band, Based on the Strip-Slot Technology	microwave measurements, resonant method, strip-slot technology, s-parameters, powder materials, electronic components and devices, microwave system, filters.	South Ural State University (national research university)	Vardanyan Vardges (Dr., Prof.)	12.11.2022 14:45
24	Nikolaj Valer'evich Dudarev, Dmitriy Fomin, Denis Klygach, Maksim Vahitov, Svyatoslav Dudarev, Aleksandr Dudarev	Device for Measuring Dielectric Properties of Powder Materials Based on the Strip Transmission Line #2	microwave measurements, nicholson-ross-weier method, s-parameters, powder materials.	South Ural State University (national research university)	Vardanyan Vardges (Dr., Prof.)	12.11.2022 15:00
25	Vyacheslav Shuvalov, Darya Kalmykova, Boris Zelentsov	Model of the battery resource utilization process in the optical line terminal redundant power supply system of the access network	passive optical access networks, system reliability, redundant power supply, battery, dependability measures, operational unavailability factor, conditional unavailability factor	Siberian State University of Telecommunications and Information Science	Vardanyan Vardges (Dr., Prof.)	12.11.2022 15:15
26	Alexey Andriyanov	Controlling Nonlinear Dynamic Processes of a DC/DC Converter with Pulse-Frequency Modulation	buck converter, pulse-frequency modulation, nonlinear dynamics, regulator, time-delay feedback control	Bryansk State Technical University	Vardanyan Vardges (Dr., Prof.)	12.11.2022 15:30
27	Ilya A. Ivantsov, Yevgeniy Zhechev	Four-Layer Reflection-Symmetric Structure with Electromagnetic Absorber	modal reservation, cold redundancy, radio absorbing material, multiconductor transmission line, quasistatic simulation, electromagnetic compatibility, ultra-wideband interference	Tomsk State University of Control Systems and Radioelectronics	Vardanyan Vardges (Dr., Prof.)	12.11.2022 15:45
28	Nikolay Knyazev, Maxim Vakhitov, Denis Klygach, Victor Alexeevich Chechetkin, Alexander Malkin, Alexey Korotkov	Measuring system for studying the frequency dependence of the complex permittivity of dielectric solids and bulk materials in the temperature range #3	permittivity, vector network analyzer, measurement error, microwave materials, temperature dependence	Ural Federal University	Vardanyan Vardges (Dr., Prof.)	12.11.2022 16:00