

# The 4<sup>th</sup> International Siberian Scientific Workshop on Data Analysis Technologies with Applications SibDATA-2023

**September 22-23, 2023**

September 22, 2023

9:30	Opening Ceremony
09:40 – 10:00	<b>Batyr Babayev</b> MODERN TRENDS IN COMPUTER SCIENCE
10:00 – 10:20	<b>Dmitry Kononov, Sergey Isaev, Saparguly Sarygulov</b> SOFTWARE TOOLS FOR ANALYZING CYBER THREATS IN CORPORATE NETWORK
10:20 – 10:40	<b>Sergey Isaev, Denis Doncov</b> INTERNET RESOURCE ANALYSIS FOR CYBER THREAT SOURCE DETECTION
10:40 – 11:00	<b>Olga Isaeva, Nikita Kulyasov</b> SEMANTIC MODELING OF THE SCHEME “PUBLISHER-BROKER-SUBSCRIBER” FOR DATA ANALYSIS OF THE INTERNET OF THINGS
11:00 – 11:20	<b>Coffee Break</b>
11:20 – 11:40	<b>Mariya Senashova</b> HIGHLY ORDERED DISTRIBUTION OF GC-CONTENT VALUES OF THE FRAGMENTS IN THE SPATIAL STRUCTURE OF MITOCHONDRIAL, CHLOROPLAST AND BACTERIAL GENOMES
11:40 – 12:00	<b>Emilia Monakhova, Oleg Monakhov</b> GENERATION AND ANALYSIS OF OPTIMAL DOUBLE-LOOP CIRCULANT NETWORKS DATASET
12:00 – 12:20	<b>Anna Molyavko, Eugenia Karepova, Michael Sadovsky, Igor Borovikov, Kakabay Hojanepesov</b> STATISTICAL APPROACH TO DETERMINING SIGNIFICANT OVERLAYS IN THE SHAIDUROV’S METHOD
12:20 – 12:40	<b>Viktoriya Petrakova, Eugeniya Karepova, Alexey Tokarev</b> SEGMENTATION ALGORITHMS FOR MULTIMODALLY DISTRIBUTED DATA IN TIME SERIES
13:00 – 14:00	<b>Lunch</b>
15:00 – 15:20	<b>Aleksey Rogalev</b> DATA ANALYSIS OF SYMBOLIC COMPUTATIONS IN PROBLEMS OF ESTIMATING SETS OF DIFFERENTIAL EQUATIONS SOLUTIONS
15:20 – 15:40	<b>Evgeny Piskunov</b> IMPUTATION OF HIDDEN DATA ON INTERREGIONAL SUPPLIES OF INDUSTRIAL GOODS
15:40 – 16:00	<b>Nikita Vanroye, Andrey Vlasov</b> DATA INTEGRATION IN CELLULAR NETWORK PERFORMANCE MANAGEMENT SYSTEM
16:00 – 16:20	<b>Elena Basan, Olga Peskova, Alexandra Ivanova, Elisey Ivanov, Ivan Polovko</b> AUTOMATION OF ANALYSIS OF UAV FLIGHT LOGS TO DETECT ATTACKS ON THE GPS SYSTEM

**September 23, 2023**

<b>09:40 – 10:00</b>	<b>Roman Morozov, Anton Mikhalev, Batyr Babayev</b> NEURAL NETWORK MODEL OF TRAFFIC FLOW FORECASTING
<b>10:00 – 10:20</b>	<b>Tatiana Penkova, Iliia Puzanov</b> APPROBATION RESULTS OF INTELLIGENT METHODS FOR PREDICTING TECHNOLOGICAL DISRUPTIONS IN THE ALUMINUM PRODUCTION
<b>10:20 – 10:40</b>	<b>Valeriy Nicheporchuk, Tatiana Penkova, Saparguly Sarygulov</b> ARCHITECTURE OF INTELLIGENT PLATFORM FOR TERRITORIAL SAFETY MANAGEMENT
<b>10:40 – 11:00</b>	<b>Tat'yana Vitova, Ekaterina Kirik</b> DYNAMIC OF PERSONAL SPACE IN MOVEMENT OF PEOPLE
<b>11:00 – 11:20</b>	<b>Coffee Break</b>
<b>11:20 – 11:40</b>	<b>Arina Kolganova, Zinaida Apanovich</b> AEVIS – A VISUALIZATION METHOD THAT FACILITATES UNDERSTANDING DATA AND ENTITY ALIGNMENT RESULTS
<b>11:40 – 12:00</b>	<b>Margarita Favorskaya, Andrey Pakhirka</b> SEMANTICALLY ENHANCED SUPER-RESOLUTION AERIAL IMAGERY
<b>12:00 – 12:20</b>	<b>Angelica Kentz, Aleksandr Zotin, Konstantin Simonov</b> EVALUATION OF CT IMAGES DATA AND CLINICAL FINDINGS OF PATIENTS WITH SEVERE CORONAVIRUS INFECTION
<b>12:20 – 12:40</b>	<b>Anna Korobko, Nadezhda Benko, Irina Erina</b> SUPPORT FOR BUILDING INFOGRAPHIC MODELS ON THE MULTIFORMS PLATFORM
<b>12:40</b>	<b>Closing Ceremony</b>

**SibDATA-2023 workshop is supported by**

**the Institute of Telecommunications and Informatics of Turkmenistan,**

**the Institute of Computational Modelling of the Siberian Branch**  
**of the Russian Academy of Sciences,**

**the Krasnoyarsk Mathematical Center**  
**and financed by the Ministry of Science and Higher Education**  
**of the Russian Federation in the framework of the establishment and development of**  
**regional Centers for Mathematics Research and Education**  
**(Agreement No. 075-02-2023-912)**