

Business Program Draft

Nizhny Novgorod Fair
Nizhny Novgorod, Sovnarkomovskaya St., 13

August 18-20, 2026

AUGUST 18, TUESDAY

10:00 – 10:15 Opening Ceremony

Speakers:

Sergey Kobzev, First Deputy Managing Director, JSC Russian Railways
Konstantin Khromushkin, Managing Director, Railway Transport Division, NPS Group
Alexander Dolgy, General Director, NIIAS

10:15 - 11:30 Plenary Session 1

MODERN TRENDS IN THE DEVELOPMENT OF MOTION CONTROL SYSTEMS

- Development and implementation of advanced control systems
- Medium- and long-term industry development forecasts

Moderator:

Marianna Ozherelieva, Host, Russian Railways TV

Speakers:

Sergey Kobzev, First Deputy Managing Director, JSC Russian Railways
Alexander Dolgy, General Director, NIIAS
(Modern Traffic Management Systems as the Basis for Intensive Development of Russian Railways)
Konstantin Khromushkin, Managing Director, Railway Traffic Management Division, NPS Group
(Key Trends in the Development of Digital Traffic Management Systems)
Andrey Romanchikov, Managing Director for Intelligent Control Systems Development, TMH, General Director, TMH Intelligent Systems
(Transport Automation to Improve Traffic Efficiency)
Valentin Gapanovich, President, Association of Railway Equipment Manufacturers
(Transport Automation to Improve Traffic Efficiency)

TRANSPORT CONTROL SYSTEMS

	Igor Tilk, President, Promelectronika Group (Comprehensive Effective Solutions for Traffic Management Automation) Andrey Kanunnikov, Chairman of the Board of Directors, KEAZ Group
	<u>12:00 – 13:20 Panel Session 2</u> UNMANNED SYSTEMS AND LOW-TRAFFIC TECHNOLOGIES • Unmanned transport development technologies and projects on the railway, implementation prospects • Operational results of the Lastochka electric train on the Moscow Central Circle with Level 3 automation • Experience and development prospects for unmanned shunting projects • Prospects for implementing unmanned trains on the Baikal-Amur Mainline • Development of machine vision technologies, positioning in interference conditions, and remote control • Behavior of unmanned rolling stock in emergency situations • The role of personnel in the implementation of unmanned systems <u>Moderator:</u> Alexander Dolgy, CEO, NIIAS <u>Speakers:</u> Andrey Borodin, CEO, 1520 Signal (Digital Technologies of the Railway Transport Division of the NPS Group: Towards Driverless Transportation) Alexander Dmitrenko, Head of Urban Rail Transport, Railway Transport Division of the NPS Group (Digital Infrastructure for Driverless Urban Rail Transport) Pavel Mylnikov, Deputy CEO – Director of the St. Petersburg Branch, NIIAS (Digital Highways of the Future: Driverless Transportation and Low-Crowd Technologies on the Railway) Pavel Svyatnenko, CEO, TMH TM (Intelligent Control Systems: Development and Prospects) Sergey Zhuravlev, Deputy CEO for Advanced Projects, VNIKTI (Results of Operation of Driverless Shunting Locomotives at the Marshalling Yard Stations) Pavel Popov, Deputy Director of the Research Institute of Transport, Russian Transport University (MIIT) Alexey Lugovskiy, Head of the Optical Systems Department, TVEMA Firma (Unmanned and Robotic Diagnostic Systems for Rail Transport Infrastructure)

	Sergey Yemelyanov, IT Director, Belyy Rast TLC (Use of Robotic Tractors at a Container Terminal) <u>Expert:</u> Representative, TransTeleCom
	<u>14:30 – 15:50 Panel Session 3</u> AI SHRUGGED. APPLICATION OF AI TECHNOLOGIES FOR RAILWAY TRANSPORT The most advanced technologies for car and locomotive diagnostics are based on PPSS, ASKOL, ASKOPV, and other systems. Systems based on track measuring cars have accumulated extensive experience and data sets for diagnostics of tracks, overhead lines, and other objects. There are successful examples of AI being used to detect deviant behavior on platforms, at stations, and inside commuter trains. AI technologies are used for voice and command recognition, in train control processes, etc. Key topics: • Key trends and developments in AI application across rail transport sectors: diagnostics and predictive analytics, AI-based traffic safety systems, optimization of transportation processes and logistics, digital twins of infrastructure, automation and autonomous driving, AI for personnel, data protection and cybersecurity, AI integration • The problem of collecting and labeling datasets • The use of large language models, VLMs, VLAs, and others • What regulatory and technical acts govern the use of AI <u>Moderator:</u> Alexander Zazhigalkin, Director, Transport Science Association <u>Speakers:</u> Sergey Vislennov, CEO, Russian Railways Technologies Sergey Vinogradov, CEO, VNIIZhT (From AI Tools to an AI Enterprise: The Path to Implementing Generative AI) Agop Khatlamadzhiyan, Deputy CEO, NIIAS Mikhail Fomin, IT Director, Railway Transport Division, NPS Group Evgeny Pavlov, First Deputy CEO, ELTEZA Anatoly Lokhach, Head of the Information and Analytical Systems Department, TVEMA (The Most Significant Applications of AI for Infrastructure Diagnostics and Predictive Analysis of Their Conditions) Anton Suslov, Technical Director, AVP Technology (Using Computer Vision for (Unmanned technologies)

	Alexander Malyavkin, Head of the Information Security Services Department, TransTeleCom (Artificial Intelligence for Information Security) <u>Expert:</u> Pavel Popov, Deputy Director of the Research Institute of Transport, Russian University of Transport (MIIT)
	16:10 – 17:30 Panel Session 4 DIGITAL MOVEMENT. IMPROVING TRAFFIC MANAGEMENT PROCESSES • Train Traffic Management Using Digital Technologies: Integrated Approaches • Planning, Forecasting, Modeling, and Creating a Digital Twin of the System with Predictive Train Situation • New Approaches to Track and Marshalling Yard Management • AR and VR Technologies <u>Moderator:</u> Alexey Kozlovsky, Head of the Digital Modeling Complex, NIIAS <u>Speakers:</u> Mikhail Fomin, IT Director, Railway Traffic Management Division, NPS Group Inna Gurgenidze, Deputy General Director, NIIAS Evgeniya Maksimova, Director of the Institute of Management and Digital Technologies, RUT (MIIT) Yuri Fedorkin, Chief Engineer, Stalenergo (Train Traffic Management Using Digital Technologies on the Eastern Track) Maksim Starodubtsev, Chief Designer of Automatic Block Systems, NPC Promelectronika (Optical Linear Circuits: A Case Study) (during the modernization of the ChKAB) Andrey Kolesnikov, Project Management Director, Sota Laboratory (Integrated digital control of urban rail transport from transportation planning to automated dispatch) Maksim Shein, Head of the R&D-MPSU Department, NPO SAUT (Intelligent energy-efficient train control system "KAMA")

AUGUST 19, WEDNESDAY

10:00 – 11:20 Panel Session 5

ON THE DIGITAL WAVE. DEVELOPMENT OF MODERN INTERVAL CONTROL SYSTEMS

- Development of modern control systems based on the transmission of control commands via a digital radio channel
- Experience in developing systems such as ITARUS, SIRDP, and others
- Prospects for implementing control systems with a digital radio channel and/or combined control systems on railway testing sites

Moderator:

Sergey Belov, Editor-in-Chief, ROLLINGSTOCK Agency

Speakers:

Evgeny Pavlov, First Deputy General Director, ELTEZA

Pavel Popov, Deputy Director, Research Institute of Transport, RUT (MIIT)

Yuri Smagin, Business Development Director, TMH IS

(Integrated Solutions for Increasing Capacity for the Central Transport Hub)

Alexey Markov, Head of the Scientific and Technical Complex of Control Systems and Road Traffic Management, NIIAS

(Creation of Modern Control Systems Based on the Transmission of Control Commands via a Digital Radio Channel)

Experts:

Efim Rozenberg, First Deputy General Director, NIIAS

Alexey Ozerov, Head of the International Department, NIIAS

12:00 – 13:20 Panel Session 6

TELECOMMUNICATION SYSTEMS FOR THE RAILWAY INDUSTRY

Communication networks are crucial for the development of control systems. A global trend in transport development is the continuous monitoring, diagnostics, and control of trains, vehicles, and ships via digital radio channels. The railway industry is transitioning from GSM-R networks to FRMCS networks. Satellite communication networks are rapidly developing.

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	Key Topics: • Which communication systems will be used and for what tasks: LTE, DMR, 5G, satellite communications • Communication systems projects and their development prospects <u>Moderator:</u> Anna Egorova, Host, Russian Railways TV <u>Speakers:</u> Vadim Vokhmyanin, Head, Central Communications Station – Branch of JSC Russian Railways Andrey Shurdak, Deputy Head of Complex – Head of Broadband Radioelectronic Systems Sector, NIIAS (Radio Subsystem for High-Speed Rail Transport) Andrey Krivonosov, Technical Director, Bureau 1440 (Implementation of Next-Generation Satellite Communications on Russian Railways Trains: Advantages and Challenges) Ilya Sinilshchikov, Deputy General Director for Science, Raitek Dmitry Mikheev, General Director, Radio Communications Laboratory (Technical Solutions for Organizing Wireless Voice and Data Transmission Channels for Information and Management Systems in Railway Transport) Representative, TransTeleCom
	<u>14:30 – 15:50 Panel Session 7</u> I, ROBOT. PROSPECTS OF THE ROBOTICS DEVELOPMENT FOR RAILWAY TRANSPORT The shortage of skilled workers necessitates the search for robotic solutions in the rail industry. The number of robotic exhibits at the world's largest rail exhibitions is constantly increasing. Russian Railways has launched a wagon-uncoupling robot, biomorphic inspection robots, and a brake release robot. Numerous robots have been developed worldwide for the inspection of tracks, switches, overhead contact systems, and other structures. Key Topics: • Platform Approach and Service Robotics • Challenges of Robot Implementation: Technical, Technological, and Economic (in terms of justifying long payback periods)

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	• Regulatory Framework for Robotic Systems • Prospects for the Application of Government Support Measures <u>Moderator:</u> Evgeny Dudorov, CEO, R-TELEMATIKA <u>Speakers:</u> Agop Khatlamadzhiyan, Deputy CEO, NIIAS Pavel Popov, Deputy Director, Research Institute of Transport, Russian University of Transport (MIIT) Alexander Zazhigalkin, Director, Transport Science Association Ratibor Konovalyuk, Deputy CEO for Development, MGK Intechros (Practical Experience in Using ROIN Robotic Engineering Complexes on 1520mm Gauge Railway Infrastructure) Evgeny Yaroslavsky, Head of the Department of Transport, ANO "Innovative Engineering Center" (Existing and prospective government support measures for the development and implementation of robotics in rail transport)
	<u>16:10 – 17:30 Panel Session 8</u> DO NO HARM. APPROACHES TO ENSURING AND PROVING THE FUNCTIONAL SAFETY OF MODERN CONTROL SYSTEMS The implementation of innovative technologies and systems brings new risks. The implementation of unmanned systems presents many challenges in terms of proving functional safety. How can we prove that an AI-based system will behave appropriately and not lead to dangerous consequences? Can we be sure that a robot will not harm a person or cargo? <u>Key Topics:</u> • Security Issues in Innovative Systems • Approaches to Proving Their Security • Certification and Transition to Trusted AI <u>Moderator:</u> Efim Rozenberg, First Deputy Director General, NIIAS <u>Speakers:</u> Agop Khatlamadzhiyan, Deputy Director General, NIIAS Alexander Gorelik, Director, ROAT RUT (MIIT)

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	(Improving the Regulatory Framework for Functional Safety Testing of Railway Automation and Telemetry Systems) Boris Bezrodny, Head of Information Security, 1520 Signal, Railway Automation and Telemetry Division, NPS Group (Information Security Features of Railway Automation and Telemetry Systems) Sergey Kharlap, Head of the Information Control Systems and Technologies Department, Belarusian State University of Transport (Information Security Features of Railway Automation and Telemetry Systems Based on Artificial Intelligence) Sergey Ipatov, Engineer, Security and Algorithmic Support Center, NIIAS (Analytical Method for Assessing the Safety of Mechanical Components Taking into Account Cross-Influence) Ivan Korolev, Head of Department, Research Institute of Transport, Russian University of Transport (MIIT) (An Approach to Ensuring the Security of Neural Networks: From "Model Accuracy" to Provable Security of an ML Component in a Control System)
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