



DTI-2024

CONFERENCE AGENDA



December 16-17, 2024

INSTITUTE OF ECONOMICS OF THE URAL BRANCH OF RAS

The new two-year cycle of DTI Science Biennale (2024-2025) is focused on the assessment of the Artificial Intellect (AI) development in industry as the main trend of digital transformations in the coming decades.

The main scope of the papers in 2024 is:
- directions of use AI in industry;
- cross-industry potential for the use of AI;
- AI technology markets for industry;
- best practices of digital transformations in industry;
- best regional practices for using AI in industry;
- strategies and models of digital transformation of industrial companies;
- industrial policy priorities for digital transformation;
environmental and social values in the context of digitalization in industry;
- technological sovereignty and digital transformation of industry;
- human capital, digital skills and labour market.

The discussion of video presentations of articles at the conference will take place on December 16-17, 2024
at DTI Channel https://t.me/uiec_dti2024



The official website of the DTI2024 conference

1. The use of AI in industry: directions and applications

Titles and speakers	Link for discussion
N.A. KOSOLAPOVA, T.S. LASKOVA, A.Y. NIKITAEVA, D.S. LASKOVA, Southern Federal University (Rostov-on-Don, Russia) ***Business and artificial intelligence: to trust or not to trust***	https://t.me/uiec_dti2024/12
H. AL OUATIQ, S.P. PRONIN Altai State Technical University (Barnaul, Russia) ***AI-Enhanced Predictive Maintenance in Industrial Gearboxes Using Wavelet Transform and XGBoost for Fault Detection***	https://t.me/uiec_dti2024/13
A. BABANSKAYA, D. ERMOLIEVA, N. EFIMENKO, I. KOTLYAROV, D. KOLEZNEV, Financial University under the Government of the Russia (Moscow, Russia) ***Using Artificial Intelligence to Combat Fraud: Asian Experience, Russian Prospects***	https://t.me/uiec_dti2024/14
M. RAMÍREZ-PEÑA, A. CEREZO-NARVÁEZ, M. OTERO-MATEO, A. PASTOR-FERNÁNDEZ, M. BATISTA, University of Cadiz (Cádiz, Spain) ***AI-Enhanced Safety in Project-Based Production: A New Era in Workplace Risk***	https://t.me/uiec_dti2024/15
A. G. TASHKINOV, Perm National Research Polytechnic University (Perm, Russia) ***The development of artificial intelligence in the context of 'Industry 4.0'***	https://t.me/uiec_dti2024/16
I. NAUGOLNOVA, Samara State University of Economics (Samara, Russia) ***Application of Artificial Intelligence in the Space Industry: International Experience and Russia's Prospects in the Context of Sanction Pressure***	https://t.me/uiec_dti2024/17
T. MALYSHEVA, A. LYSENKOV, D. CHIZH Kazan National Research Technological University (Kazan, Russia) ***Using artificial intelligence in industry to prevent manufacturing defects***	https://t.me/uiec_dti2024/18

Titles and speakers	Link for discussion
S. LEVSHCHANOV, self-employed (Krasnodar, Russia) ***Practices of introduction and application of artificial intelligence, machine learning and data science technologies in such spheres as construction, maintenance of buildings and structures and execution of estimates***	
V. GUMEROV, V. MURATOVA, Moscow Institute of Physics and Technology (Dolgoprudny, Russia) ***Application of artificial intelligence technologies for financial literacy***	https://t.me/uiec_dti2024/19
N. RAHMANI Choubeh Politecnico di Milano, (Milano, Italy) W. QUADRINI, D. SYED Politecnico di Milano, (Milano, Italy) R. ZANETTI, A. MARGUGLIO Engineering Ingegneria Informatica S.p.A, Viale della Regione Siciliana Nord Ovest (Palermo, Italy). L. FUMAGALLI, Politecnico di Milano (Milano, Italy). ***Reference Architecture to exploit Data as a Product through the Cloud-Edge continuum***	https://t.me/uiec_dti2024/20
A.N. GOLOVINA, A.A. TIMOSHIN, Ural State University of Economics (Yekaterinburg, Russia) ***Artificial intelligence as a tool for managing production processes in industry***	https://t.me/uiec_dti2024/21
B. NICOLETTI, Temple University, (Rome, Italy), A. APPOLLONI, University of Rome Tor Vergata, (Rome, Italy) ***Digital Agents and Generative Artificial Intelligence in Support of Logistics 5.0***	
A.S. MELNIKOV, Ural Federal University named after the first President of Russia B.N. Yeltsin (Yekaterinburg, Russia) E.G. KALABINA, Ural State University of Economics (Yekaterinburg, Russia). ***Dissemination of artificial intelligence technology in the activities of Russian organizations***	https://t.me/uiec_dti2024/22
V.V. DORZHIEVA, Institute of Economics, Russian Academy of Sciences (Moscow, Russia) ***AI in the Pharmaceutical Industry as a Tool for Ensuring Technological Leadership***	https://t.me/uiec_dti2024/24

Titles and speakers	Link for discussion
A.A. DZHIKIYA, M.D. DZHIKIYA Volgograd State University, (Volgograd, Russia) ***Artificial intelligence: models of economic and legal regulation***	https://t.me/uiec_dti2024/25
YUSMAZIDA MOHD YUSOFF, University Malaysia Kelantan (Kelantan, Malaysia), HAYYUM SULEIKHA SELAMAT, University of Science and Technology, (Selangor, Malaysia) ***The Role of Generative AI in Disrupting and Facilitating Terrorism: A Critical Examination Through the Lens of Malaysia's Counterterrorism Efforts***	

2. Digital transition best practices in industries and regions

Titles and speakers	Link for discussion
A. SHCHERBINA – Donetsk National Technical University (Donetsk, Russia) L. SHABALINA Economic Research Institute (Donetsk, Russia) ***Development of Digital Trade among BRICS Countries Based on Platform Model***	https://t.me/uiec_dti2024/26
A. PANCHAYKIN ***Features of easement in the oil and gas engineering industry and in the construction materials market due to the withdrawal of Western companies***	
I. ARENKOV, I. TRAPEZNIKOVA, A. UDOVICHENKO, I. SHEVAZUTSKII, St Petersburg University (St. Petersburg, Russia) ***Prospects for unmanned vehicles based on swarm intelligence and industrial digitalization***	https://t.me/uiec_dti2024/27
O.V. UMGAEVA, Research Financial Institute of the Ministry of Finance of the Russia (Moscow, Russia) ***Digital transformation of the sphere of turnover of precious stones and metals***	https://t.me/uiec_dti2024/28

Titles and speakers	Link for discussion
A.A. ESHTAEV, S. YEKIMOV, Czech University of Life Sciences Prague (Praha - Suchdol, Czech Republic) ***Opportunities And Challenges Of Digital Transformation Of Tourism Industry In Uzbekistan***	
V.S. BONDAREVA, Kyrgyz-Slavic University named after B.N. Yeltsin (Bishkek, Kyrgyz Republic) ***Financial marketplace as an innovative tool for service implementation***	https://t.me/uiec_dti2024/29
D.V. KOLEZNEV Financial University under the Government of the Russian Federation (Moscow, Russia). ***International experience in using modern digital technologies to counter corporate fraud***	
S. TEMPERONI, G. VERROCCHIO, L. BRAVI, G. PIERLI, F. MURMURA, Carlo Bo University of Urbino (Urbino, Italy) ***Integrated Logistics and Last Mile Challenges in the Food Delivery Sector: A Comparative Study of Urban and Peripheral Delivery Models***	https://t.me/uiec_dti2024/30
V. ANES, A. ABREU, M. INÁCIO Polytechnic University of Lisbon (Lisboa, Portugal) ***Optimizing Material Requisition Processes Through Lean Methodologies: A Strategic Approach to Waste Reduction and Digital Integration***	https://t.me/uiec_dti2024/31
A.G. TASHKINOV, Perm National Research Polytechnic University, (Perm, Russia) ***The application of Digital platforms in the context of Industry 4.0***	https://t.me/uiec_dti2024/56
A. LESIK ***Features of information management in building business process automation models for organizations***	
F.S. GUBAIDULLINA**,** Ural Federal University named after the first President of Russia B. N. Yeltsin (Yekaterinburg, Russia) ***The impact of digitalization on the development of creative industries in South-Eeast Asian countries***	
I. TURGEL, I. BASKAKOVA, V. DERBENEVA Ural Federal University (Yekaterinburg, Russia) ***Management Strategies for Creative Reindustrialization in Secondary-Tier Cities in the Context of Digital Transformation***	https://t.me/uiec_dti2024/32

Titles and speakers	Link for discussion
A.A. DEMIN Shenzhen MSU-BIT University (Shenzhen, China) A.I. VLASOV, K.V. SELIVANOV, A.R. EVSEEVA, B.E. SAFONOV, Bauman Moscow State Technical University (Moscow, Russia) ***Intelligent three-dimensional integration of cyber-physical system components***	https://t.me/uiec_dti2024/33
UMUT AHMET SEYREK ONDOKUZ, KÜRŞAT DEMIRYÜREK Prof. Dr. Ondokuz Mayıs Üniversitesi (Samsun, TÜRKİYE) ***Literature Review on Organizational Challenges from the Perspective of Organizational Innovation in the Digital Transformation process***	
S.G. FOMIN., J.A. ERMAKOVA, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Digital industrial enterprise planning platform***	https://t.me/uiec_dti2024/51
A.O. PONOMAREVA, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Structural and technological transformation of industry: assessment by the profile of digitalization***	
E.S. MEZENTSEVA, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Trends in the systemic stability of the Russian industrial complex in the context of the formation of industrial ecosystems and platformization***	
A.Z. BARYBINA, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***A comprehensive typology of digital industrial platforms in the global market***	
N.A. MATUSHKINA, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Digitalization trends in industrially developed regions of Russia***	
DUAN ZHENLONG, Ural Federal University (Yekaterinburg, Russia) ***Research of digital transformation in the field of personnel management of the company: a comparative analysis of Russian and Chinese companies***	

3. Digital transformation strategies and models for industrial companies

Titles and speakers	Link for discussion
A.G. MOKRONOSOV, T. R. ASYLGUZHIN, Ural State University of Economics (Yekaterinburg, Russia) ***Patent information services as a factor of sustainable competitive development of industry***	
O.V. SHEVCHENKO, Yanka Kupala State University of Grodno, (Grodno, Belarus) ***Strategic priorities for digital transformation of industry in the region***	
A.F. SHORIKOV, Institute of Economics of the Ural Branch of the Russian Academy of Sciences (Yekaterinburg, Russia) ***Network economic and mathematical model for optimization of management of digital industrial ecosystems projects implementation***	
O.A. ROMANOVA, D.V. SIROTIN, Institute of Economics of the Ural Branch of RAS (Ekaterinburg, Russia) ***Industry 4.0 and Industry 5.0 as a strategic guideline for the development of Ural metallurgy***	https://t.me/uiec_dti2024/34
D.A. SYUSYURA, Institute of Economics of the Ural Branch of the Russian Academy of Sciences, Orenburg branch (Orenburg, Russia). ***Regional strategies for managing scientific and technological development***	https://t.me/uiec_dti2024/35
A.G. TASHKINOV, Perm National Research Polytechnic University (Perm, Russia), ***Analysis of the unique features of digital enterprises in the cyber-physical world***	https://t.me/uiec_dti2024/57
S. KUDRYAVTSEVA, R. NURGALIEV, V. KAKADZHANOV, O. MINULINA Kazan National Research Technological University (Kazan, Russia) ***Analysis and modeling of trends in sustainable industrial development in national economic systems***	https://t.me/uiec_dti2024/36

Titles and speakers	Link for discussion
L.V. SHABALINA, G.A. SHAVKUN, M.V. TIMKO Economic Research Institute (Donetsk, Russia). ***Scientific and Technical Cooperation Among EAEU Countries as a Basis for Industrial Development in the Context of Digitalization***	https://t.me/uiec_dti2024/37
A.V. IVANCHENKO Institute of Economics of the Ural Branch of the Russian Academy of Sciences, (Yekaterinburg, Russia) ***The formation of industrial ecosystems and digital platforms in the Russian Federation: industry features, state and prospects of development***	https://t.me/uiec_dti2024/38
K.I. FATTAKHOV, St. Petersburg Polytechnic University (Saint-Petersburg, Russia) ***Modern trends in the development of strategic management of an organization in the context of digital transformation***	https://t.me/uiec_dti2024/39
E. SAGATGAREEV, Bashkir Institute of Physical Culture (branch) of the Urals State University of Physical Culture (Ufa, Russia), T. LARINA, Orenburg Branch of the Institute of Economics of the Ural Branch of the Russian Academy of Sciences (Orenburg, Russia), ***The process of innovation and investment as a factor in the development of the regional economy (on the example of large industrial regions of the Volga Federal District)***	https://t.me/uiec_dti2024/40
A. A. POBEDIN, Russian Presidential Academy of National Economy and Public Administration (RANEPA), (Yekaterinburg, Russia) ***Trajectories of digital transformation of regions: a systematic review***	https://t.me/uiec_dti2024/41
A. EVSEEV, N. MOROZOVA, I. VASILEVA, Ulianov Chuvash State University (Cheboksary, Russia) ***Innovation Management Approaches In The Context Of Paradigm 5.0 Regional Digital Transformation***	https://t.me/uiec_dti2024/53
A. EVSEEV, I. VASILEVA, G. SOKOLOVA, Ulianov Chuvash State University (Cheboksary, Russia) ***Production Segmentation Features At The Digital Regional Transformation Conditions***	https://t.me/uiec_dti2024/54
A.F. SHORIKOV, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Network Modeling Method for Optimizing the Management of Digital Industrial Ecosystem Project Implementation***	https://t.me/uiec_dti2024/58

Titles and speakers	Link for discussion
G.B. KOROVIN, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Assessment of the economy's readiness for the formation of digital industrial ecosystems***	
E.V. POTAPTSEVA, O.S. BRYANTSEVA Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Evidence-based policy of technological suverenity in the context of robotization***	https://t.me/uiec_dti2024/59
E.S. MEZENTSEVA, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Modern forms of entrepreneurship in corporate ecosystems***	
V.V. AKBERDINA, Institute of Economics of the Ural Branch of the RAS (Ekaterinburg, Russia) ***Platform industrial markets and industrial ecosystems: research overview***	

4. Environmental and social aspects of industry digitalization

Titles and speakers	Link for discussion
N. KRASILNIKOVA, E. SAVVIN, Arctic research center of Sakha Republic (Yakutsk, Russia) T. GAVRYLIEVA, North-Eastern Federal University (Yakutsk, Russia) ***Monitoring of emission in the extractive and energy industries in sparsely populated areas: case of Sakha***	https://t.me/uiec_dti2024/43
G.L. KYRIAKOPOULOS, School of Electrical and Computer Engineering, National Technical University of Athens, (Athens, Greece) J. STREIMIKIS, Lithuanian Centre for Social Sciences, Institute of Economics and Rural Development, (Vilnius, Lithuania) ***Climate change in tourism industry: The role of quality in the contexts of coastal services and shipping***	https://t.me/uiec_dti2024/44

Titles and speakers	Link for discussion
M.A. MAYOROVA, S.V. SHKIOTOV, M.I. MARKIN, Yaroslavl State Technical University, (Yaroslavl, Russia) ***The impact of the technological spillover in the EAEU space on the state of the environment***	https://t.me/uiec_dti2024/45
A.O. ROTOVA, YU.V. PETROV, Tyumen State University (Tyumen, Russia). ***ESG values in the oil and gas industry***	https://t.me/uiec_dti2024/46
R. SARVARY, Polotsk State University (Novopolotsk, The Republic of Belarus) ***The Genesis of Artificial Intelligence as a Driver for the Transformation of Human Capital Potential***	https://t.me/uiec_dti2024/47
I. SEMENOVA, V. ZEMZYULINA, I. CHERNENKO Ural Federal University, (Ekaterinburg, Russia) ***Digital pathways of Russian regions and their interaction with the local human capital markets: an evolutionary perspective***	https://t.me/uiec_dti2024/48
I. CHERNENKO, M. KOLIASNIKOV, V. ZEMZIULINA, Ural Federal University (Ekaterinburg, Russia) ***Building Health Capital Through Digital Skills: A Regional Study on Healthcare Satisfaction and Well-being in Russia***	https://t.me/uiec_dti2024/49
Z.X.K. BOTIROVA, Namangan State University (Uzbekistan) ***Stages Of Development Of Professional Competence Of Future English Teachers With The Help Of Artificial Intelligence Tools***	
I.V. KOTLYAROV, Financial University under the Government of the Russian Federation (Moscow, Russia) ***Facial Detection Systems for Territory Identification: China's Experience***	https://t.me/uiec_dti2024/50
M.C. ASTASHEVSKY, A.A. ASTASHEVSKAYA, M.A. BYKOVSKY, Mytishchi branch of Bauman Moscow State Technical University (Mytishchi, Russia) ***Digitalization of forests in Krasnoyarsk Krai and the use of machine vision technology***	