



INTERNATIONAL SYMPOSIUM

APPLICATION OF BIG DATA ANALYSIS FOR TREND
SPOTTING RELATED TO THE DEVELOPMENT
AND USE OF HUMAN CAPITAL

APRIL 12, 2021

NATIONAL RESEARCH UNIVERSITY
HIGHER SCHOOL OF ECONOMICS
MOSCOW, RUSSIA

PROGRAMME

SESSION 1: INTELLIGENT ANALYSIS OF BIG DATA: CASES OF SUCCESSFUL APPLICATION AND DIRECTIONS OF DEVELOPMENT

Moderator: Ilya Sochenkov, Deputy Director of the Center for Strategic Analytics and Big Data, Institute for Statistical Studies and Economics of Knowledge, HSE University, Russia

12:00	Ilya Kuzminov, Director of the Center for Strategic Analytics and Big Data, Institute for Statistical Studies and Economics of Knowledge, HSE University, Russia iFORA System Development Directions: Promising Visual Analytical Products and New Indicators
12:20	Ozcan Saritas, Head of the Laboratory for Science and Technology Studies, Institute for Statistical Studies and Economics of Knowledge, HSE University, Russia Utilizing Big Data in National Foresight: The Case of South Africa 2030
12:40	Yulia Milshina, Senior Research Fellow, Institute for Statistical Studies and Economics of Knowledge, HSE University, Russia Trends in the Development of Human Potential and the Labor Market: the Results of Big Data Analysis
13:00	Pavel Bakhtin, Senior Data Scientist, Sber, Russia Learning Scientific Document Embeddings via Co-citation Graph Knowledge Transfer
13:20	Discussion and wrap-up

SESSION 2: APPLICATION OF BIG DATA ANALYSIS AND NATURAL LANGUAGE PROCESSING TECHNOLOGIES IN BUSINESS, RESEARCH AND CONSULTING

Moderator: Ilya Kuzminov, Director of the Center for Strategic Analytics and Big Data, Institute for Statistical Studies and Economics of Knowledge, HSE University, Russia

13:45	Ilya Sochenkov, Deputy Director of the Center for Strategic Analytics and Big Data, Institute for Statistical Studies and Economics of Knowledge, HSE University, Russia The Scientific and Technical Landscape of Russia in the Field of Artificial Intelligence. People, Organizations and Major Trends
14:05	Yuliya Otmakhova, Institute of Economics and Industrial Engineering SB Russian Academy of Sciences, Dmitry Devyatkin, Research Scientist, Federal Research Center "Computer Science and Control" of the RAS, Russia Methods and Tools for Large Full-text Document Database Mining to Evaluate the Transformation of Personnel Policy in a Pandemic
14:25	Oleg Ena, Director of the Project Office, Federal Institute of Industrial Property, Russia Artificial Intelligence: What Do We Lack in Making Truly Business-valuable Patent Analytics?
14.45	Svetlana Maltseva, Research Professor, School of Computer Engineering, HSE University, Russia Requirements for Big Data Architecture for Human Resource Management Systems
15:05	Discussion and wrap-up

SESSION 3: PROSPECTS FOR THE DEVELOPMENT OF APPLIED TECHNOLOGIES FOR BIG DATA PROCESSING AND NATURAL LANGUAGE ANALYSIS

Moderator: Ilya Sochenkov, Deputy Director of the Center for Strategic Analytics and Big Data, Institute for Statistical Studies and Economics of Knowledge, HSE University, Russia

15:30	Tatyana Shavrina, Team Lead, RnD NLP team, Sber, Russia All Ways to Measure an Elephant: Russian Superglue & RuSentEval
15:50	Igor Pivovarov, Chief Analyst of MIPT Center of Artificial intelligence, Russia Big Data Analytics – Pandora's Box for Humanity
16:10	Alexey Neznanov, Senior Research Fellow, Associate Professor of the Faculty of Computer Science, HSE University, Russia Three Pillars of Future Personalized Adaptive Learning Software: Big Data, Formal Knowledge, and Educational Data Mining Authors: Alexey Neznanov, Fedor Dudyrev, Olga Maksimenkova, HSE University, Russia
16:30	Mikhail Burtsev, Head of the Neural Networks and Deep Learning Laboratory, MIPT, Russia Natural Language Processing with the Open Source Framework DeepPavlov
16:50	Discussion and wrap-up

*The symposium is organized in the framework of a research grant funded by the Ministry of Science and Higher Education of the Russian Federation (grant ID: 075-15-2020-928).