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XI

INTERNATIONAL ACADEMIC CONFERENCE
**FORESIGHT AND SCIENCE, TECHNOLOGY
AND INNOVATION POLICY**

OCTOBER 15–26, 2021

**NATIONAL RESEARCH UNIVERSITY HIGHER SCHOOL OF ECONOMICS
MOSCOW, RUSSIA**

PROGRAMME

(MOSCOW TIME IS INDICATED)

FORMAT: ONLINE

WORKING LANGUAGES: ENGLISH & RUSSIAN
(WITH SIMULTANEOUS TRANSLATION)

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Science, Technology and Innovation Policy

October 15, 2021 10:15–12:10

Session 1: Digitalisation of Society: New Technologies as Drivers of Social Transformation

Chair: Ekaterina Streltsova, HSE University, Russia

10:20	Liliya Pankratova <i>St. Petersburg University, Russia</i> Digital Transformation of Consumer Society: Trends and Risks
10:40	Denis Strebkov, Andrey Shevchuk <i>HSE University, Russia</i> Remote Work in Russia: Trends and Perspectives of the Market
11:00	Valentina Polyakova <i>HSE University, Russia</i> Driverless Cars: Between Public Trust and Anxiety
11:20	Ekaterina Taran <i>HSE University, Russia</i> Elderly Population and the Digital Divide: Problems and Perspectives
11:40	Ivan Yudin, Liliya Kuzina <i>HSE University, Russia</i> Digital Practices of Russian Population in the Post-Pandemic Period: a Rebound Effect?
12:00	Discussion and Wrap-up
12:10	Coffee break

October 15, 2021 15:00–17:40

International Workshop: Global Value Chains and Regional Systems of Innovation: Towards a Critical Juncture?

Chair: Dirk Meissner, HSE University, Russia



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15:00	Bruno Fischer <i>University of Campinas, Brazil</i> Opening / introduction
15:05	Keynote Speech Carlo Pietrobelli

	<p><i>Roma Tre University, Italy; United Nations University UNU-MERIT, Maastricht, The Netherlands</i></p> <p>Antonio Vezzani <i>Roma Tre University, Italy</i></p> <p>Deepening or Delinking? Innovative Capacity and Global Value Chain Participation in the IT Industry</p>
15:30	<p>Jiali Liu <i>Institutes of Science and Development, Chinese Academy of Sciences, China</i></p> <p>Embedding in Global Value Chains and Local Ecosystems by Latecomers: Evidence from China's Integrated Circuit Design Firms</p> <p>Discussant: Ron Boschma <i>Utrecht University, the Netherlands</i></p>
16:00	<p>Shikha Gupta <i>Faculty of Management Studies, University of Delhi, India</i></p> <p>Defining Research Agenda: Scientometric Analysis of Three Decades of Global Value Chains Research</p> <p>Discussant: Dirk Meissner <i>HSE University, Russia</i></p>
16:30	<p>Zhuqing Mao <i>University of Johannesburg College of Business and Economics, Auckland Park, Republic of South Africa</i></p> <p>Global Value Chains and Productivity Upgrading: a Sectoral Level Non-linear Approach</p> <p>Discussant: Nicholas Vonortas <i>George Washington University, USA; HSE University, Russia</i></p>
17:00	<p>Ana Lucia Figueiredo Facin <i>Universidade Estadual Paulista Julio de Mesquita Filho, Brazil</i></p> <p>Uncertainty Management in Global Innovation Ecosystems</p> <p>Discussant: Bruno Fischer <i>University of Campinas, Brazil</i></p>
17:30	<p>Concluding remarks</p> <p>Nicholas Vonortas <i>George Washington University, USA; HSE University, Russia</i></p> <p>Ron Boschma <i>Utrecht University, the Netherlands</i></p>

Foresight for STI Policy Making under Growing Complexity and Uncertainty

October 18, 2021 12:00–13:35

Session 2: Foresight: International Dimension

Chair: **Mikhail Goland**, HSE University, Russia

12:05	Yutaro Kurogi <i>Center for S&T Foresight and Indicators, National Institute of Science and Technology Policy, Japan</i> Prospects for Science and Technology in the Post-COVID-19 Era
12:25	Rafael Popper <i>Łukasiewicz Research Network, Poland; University of Manchester, UK; University of Turku, Finland</i> Foresight and Internationalisation as Key Drivers of Science and Innovation: the Case of the Łukasiewicz Research Network in Poland
12:45	Alyona Nefedova <i>HSE University, Russia</i> International Mobility and Productivity of Young Researchers: What Statistics, Bibliometrics and Researchers Themselves Tell?
13:05	Yanuar Nugroho <i>Centre for Innovation Policy and Governance, Indonesia</i> Envisioning Knowledge & Innovation Ecosystem in Indonesia
13:25	Discussion and Wrap-up
13:35	Coffee break

October 18, 2021 13:45–15:40

Special Workshop: Science and Technology Foresight in BRICS Countries

Co-Chairs: **Irina Kuklina**, Secretariat of the Russian Council for Science, Technology and Innovation Cooperation of BRICS, International Centre for Innovations in Science, Technology and Education, Russia; **Alexander Sokolov**, HSE University, Russia



13:45	<p>Irina Kuklina <i>Secretariat of the Russian Council for Science, Technology and Innovation Cooperation of BRICS, International Centre for Innovations in Science, Technology and Education, Russia</i> Opening Remarks</p>
13:50	<p>Gautam Goswami, Jancy Ayyaswamy <i>Technology Information, Forecasting and Assessment Council, Department of Science and Technology, India</i> Foresight Driven Policy and Decision Making System in India - an Insight</p>
14:10	<p>Yuan Like <i>Chinese Academy of Science and Technology for Development, China</i> National Technology Foresight System in China: Current Status and Future Challenges</p>
14:30	<p>Mlungisi Cele <i>National Advisory Council on Innovation, Republic of South Africa</i> From Foresight Exercise to Policy: Possible Impacts and Opportunities</p>
14:50	<p>Konstantin Vishnevskiy, Sofya Privorotskaya <i>HSE University, Russia</i> Digital Technologies Today and Tomorrow: Results of Semantic Analysis of Big Data</p>
15:10	<p>Marcio de Miranda Santos <i>Center for Strategic Studies and Management, Brazil</i> The Brazilian S&T Current Landscape: Main Trends and Thematic Characteristics</p>
15:30	<p>Discussion and Wrap-up</p>

October 19, 2021 12:00–13:35

Session 3: Foresight Theory and Practices

Chair: Ted Fuller, University of Lincoln, UK

12:05	<p>Seema Gail Parkash <i>Centre for Strategic Futures, Singapore</i> The Art of Creative Communication to Maximise Foresight Impact</p>
12:25	<p>Effie Amanatidou <i>University of Manchester, UK</i> Foresight for Responsible Transform-ability</p>
12:45	<p>Konstantin Vishnevsky, Anna Grebenyuk, Alexander Sokolov, Yulia Turovets <i>HSE University, Russia</i></p>

	Identification of S&T Frontiers: Big Data Analysis
13:05	Guillermo Velasco <i>Polytechnic University of Madrid, Spain</i> Reposition, Representation, Resolution: Three Influencing Factors on Foresight-Based Advising Processes
13:25	Discussion and Wrap-up
13:35	Coffee break

October 19, 2021 13:45–15:20

Session 4: Foresight and Human Capital

Chair: Yulia Milshina, HSE University, Russia

13:50	Anna Grebenyuk <i>HSE University, Russia</i> Global Trends and Human Capital: First Results of a Delphi Study
14:10	Jose Cordeiro <i>The Millennium Project, USA</i> The Future of Longevity: Mortality, Amortality and Immortality
14:30	Ibon Zugasti <i>The Millennium Project, Spain</i> Future of Work in a Post Covid Scenario
14:50	Discussion and Wrap-up
15:20	Coffee break

October 19, 2021 15:30–18:00

Session 5: Science and Technology Responses for Green Recovery

Chair: Liliana Proskuryakova, HSE University, Russia

15:35	Asif Muhammad <i>Glasgow Caledonian University, the UK</i> Energy Transition: Dynamics, Prospects and Challenges
15:55	Ilya Stepanov <i>HSE University, Russia</i> Risks & Opportunities for Russia under Global Low-carbon Transformation
16:15	Stefan Vögele, Inga Wittenberg, Hawal Shamon, Lisa Broska, Wilhelm Kuckshinrichs <i>Institute of Energy and Climate Research - Systems Analysis and Technology Evaluation, Research Centre Juelich, Germany</i>

	On the Future(s) of Energy Communities in the German Energy Transition
16:35	Andrey Kulakov <i>Inter RAO — Engineering, Russia</i> Scenarios of Russia's Response to Energy Transition Challenges
16:55	Vincenzo Bianco <i>University of Genoa, Italy</i> Energy Efficiency Interventions in EU Residential Sector as a Driver for the Green Recovery. A Comparative Analysis of Germany, Italy and Spain
17:15	Brian Vad Mathiesen <i>Aalborg University, Denmark</i> Smart Energy Systems and 70% Reduction of Green House Gas Emissions by 2030
17:35	Discussion and Wrap-up

October 20, 2021 12:00–14:30

Session 6: Big Data for Evidence-based Foresight and STI Policy Making

Chair: **Ozcan Saritas**, HSE University, Russia

12:05	Masaru Yarime <i>The Hong Kong University of Science and Technology, China</i> Governing Data-Driven Innovation for Sustainability: Implications for Foresight and STI Policy
12:25	Sercan Ozcan <i>University of Portsmouth, UK</i> Social Media Intelligence for Innovation and Product Development
12:45	Ilya Kuzminov <i>HSE University, Russia</i> Applied Use of Big Data in Strategic Analytics: A Retrospective of Completed Cases
13:05	Olga Maksimenkova <i>HSE University, Russia</i> Towards Interactive Big Text Mining Visualization as a Golden Standard in the Next Generation of Business Intelligence
13:25	Alberto Moro <i>Joint Research Centre, European Commission</i> The Use of Text Mining for Technology Foresight
13:45	Ozcan Saritas <i>HSE University, Russia</i> Brainstorming: Future Prospects of Big Data: What is Next for Foresight and STI

	Policy Making
14:05	Discussion and Wrap-up
14:30	Coffee break

October 20, 2021 14:40–15:45

Session 7: Innovation Strategy

Chair: Mikhail Gershman, HSE University, Russia

14:45	Nicholas Vonortas <i>George Washington University, USA; HSE University, Russia</i> U.S. Innovation Strategy: Continuity and Disruption in National Policy
15:30	Discussion and Wrap-up

October 21, 2021 12:00–13:55

Session 8: Planning Future Scenarios under Complexity and Uncertainty

Chair: Yury Dranev, HSE University, Russia

12:05	Luke Georghiou <i>University of Manchester, UK</i> Foresight on the Role of Universities after the Pandemic
12:25	Diana Managalagiu <i>Environmental Change Institute, University of Oxford, UK</i> Integrated Foresight Approaches for Transformative Environmental Policy
12:45	Sami Mahroum <i>Solvay Brussels School of Economics and Management, Belgium</i> Using Principal-Agent Frameworks to Construct Future Scenarios: Automation and the Future of Jobs as an Example
13:05	John A. Sweeney <i>Westminster International University in Tashkent, Uzbekistan</i> Superfluid Strategizing: Approaching Futures through the Lens of Chaos Theory
13:25	Discussion and Wrap-up
13:55	Coffee break

October 21, 2021 14:15–16:40

Session 9: Pandemonics

Chair: Ozcan Saritas, HSE University, Russia

14:20	Ian Miles
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	<i>HSE University, Russia; University of Manchester, UK</i> Pandemonium: What the COVID19 Crisis Can Teach Us about Foresight?
14:35	Rushdi Abdul Rahim <i>Malaysian Industry Government Group for High Technology; Malaysian Foresight Institute, Malaysia</i> Responding to Post Pandemic Futures
14:50	Kerstin Cuhls <i>Fraunhofer Institute for Systems and Innovation Research, Germany</i> Five European Possible Futures 2040 - PostCovid-19 Scenarios for the European Commission
15:05	Joe Ravetz <i>University of Manchester, UK</i> Foresight Goes Viral: Working with Collective Foresight Intelligence
15:20	Discussion
15:30	Coffee break
15:40	Interactive brainstorming in the Laboratory of Collective Intelligence
16:30	Discussion and Wrap-up

October 22, 2021 12:00–13:30

Session 10: New Frontiers of Open Innovation

Chair: Dirk Meissner, HSE University, Russia

12:05	Vitaliy Roud, Valeria Vlasova <i>HSE University, Russia</i> Innovation Culture in the Age of Open Innovation
12:25	Marina Dabich <i>University of Zagreb, Croatia, Nottingham Trent University, UK</i> The Limits of Open Innovation
12:45	David Sarpong <i>Brunel University, UK</i> Public Research in Open Innovation
13:05	Discussion and Wrap-up
13:30	Coffee break

October 22, 2021 14:10–15:45

Session 11: Innovation in Finance

Chair: Ian Miles, HSE University, Russia; University of Manchester, UK

14:15	Thomas Thurner, Veronika Belousova, Nikolay Chichkanov, Zhaklin Krayushkina <i>HSE University, Russia</i> The Reverse Product Innovation Cycle Revisited – How Banks are Expanding Their Service Innovation Activities to Facilitating Societal Resilience During Covid-19
14:35	Larry Cao <i>CFA Institute, USA</i> T-Shaped Teams: Organizing to Adopt AI and Big Data at Investment Firms
14:55	Gael Imad'Eddine <i>University of Lille, France;</i> Antti Miihkinen <i>Aalto University, Finland;</i> Jan-Oliver Strych <i>Karlsruhe Institute of Technology, Germany</i> Internal Governance of Firms by Promotion-Based Incentives: Empirical Evidence from Mergers and Acquisitions
15:15	Yury Dranev, Elena Ochirova <i>HSE University, Russia;</i> Rainer Harms <i>University of Twente, The Netherland, HSE University, Russia</i> Efficiency of Technology M&A: Implications for Open Innovation
15:35	Discussion and Wrap-up
15:45	Coffee break

October 22, 2021 16:00–17:30

Session 12: Global Innovation Index 2021

Chair: Leonid Gokhberg, HSE University, Russia

16:05	Leonid Gokhberg <i>HSE University, Russia</i> Opening Remarks
16:15	Sacha Wunsch-Vincent <i>World Intellectual Property Organization</i> Global Innovation Index 2021 (GII) Presentation
16:15	Discussion Issues for discussion: <ul style="list-style-type: none">• <i>What national innovation system attributes and strong sides are the most</i>

important for nations' success in innovation?

- *Is it possible to succeed along all dimensions of GII simultaneously? What does an example of the leading countries tell us?*
- *Does the GII reflect national specificities of countries? And is it even necessary?*
- *What a role can GII play for policy makers?*

Participants:

Soumitra Dutta

Portulans Institute; SC Johnson College of Business, Cornell University, USA

Moacir de Miranda Oliveira Junior

University of San Paulo, Brazil

Veneta Andonova

University of Los Andes, Colombia

José Ernesto Amorós

EGADE Business School, Mexico

Fernando Moya

EGADE Business School, Mexico

Irina Dezhina

Skolkovo Institute of Science and Technology; HSE University, Russia

Valeriya Vlasova

HSE University, Russia

Vitaliy Roud

HSE University, Russia

17:25

Leonid Gokhberg

HSE University, Russia

Concluding Remarks

October 25, 2021 12:00–13:35

Session 13: «Designing and Managing Clusters for Sustainability»: Presentation of a Forthcoming Book

Chair: Evgeniya Lupova-Henry, University of Neuchâtel, Switzerland

12:05

Héloïse Berkowitz, Martine Gadille

Aix-Marseille University, France

Meta-organizing Clusters as Agents of Transformative Change through 'Responsible Actorhood'

12:25

Francesco Cappellano

University of Eastern Finland, Finland

Are North American Clusters Transitioning to Clean Technologies?

12:45	Evgeniy Kutsenko <i>HSE University, Russia</i> Moscow Innovation Cluster: Key Concept Features and Coronavirus Stress Test
13:05	Assia Viachka <i>Stockholm School of Economics, Sweden</i> Clean Technology Clusters: Meta-Organising Firms for Sustainability
13:25	Discussion and Wrap-up
13:35	Coffee break

October 25, 2021 13:45–15:40

Session 14: Competition of World Cities for Innovation Stars

Chair: Pavel Rudnik, HSE University, Russia

13:50	Evgeniy Kutsenko <i>HSE University, Russia</i> Innovative Moscow: Strategic Challenges and Tactical Responses
14:10	Philipp Grosskurth <i>World Intellectual Property Organization</i> Global Innovation Hotspots: Local Capabilities and Global Networks
14:30	Bruno Fischer <i>University of Campinas, Brazil;</i> Alexander Skorobogatov <i>HSE University, Russia;</i> Kirill Tyurchev <i>HSE University, Russia</i> Where do Unicorns Live? Research on Global Innovation Centers
14:50	Joe Ravetz <i>University of Manchester, UK</i> From Universities to Multi-versities: Alternative Views on Innovation Eco-systems in a Disruptive World
15:10	Vladislav Rutskiy <i>HSE University, Russia</i> Success Factors of Fast-Growing Gazelle Companies in the Context of the Challenges of the Russian Economy and Large Cities
15:30	Discussion and Wrap-up
15:40	Coffee break

October 25, 2021 15:50–17:25

Session 15: Future of Science and Education

Chair: Alexander Sokolov, HSE University, Russia

15:55	Matthias Weber <i>AIT, Austria;</i> Kerstin Cuhls <i>Fraunhofer Institute for Systems and Innovation Research, Germany;</i> Attila Havas <i>Institute of Economics, Hungary;</i> Ahti Salo <i>Aalto University, Finland</i> Embedded and Performative Foresight for STI Policies
16:15	Philip Shapira, Mabel Sanchez Barrioluengo <i>University of Manchester, UK</i> The Post Pandemic University
16:35	Riel Miller <i>UNESCO</i> Futures Literacy and Complexity: Integrating Uncertainty as a Condition not a Variable
16:55	Jonathan Calof <i>University of Ottawa, Canada; HSE University, Russia</i> Anticipatory System Model: Canadian UNESCO Chair
17:15	Discussion and Wrap-up

October 26, 2021 12:00–13:35

Session 16: Strategic Trends and Anti-crisis Response in Regional Specialization Industries

Chair: Evgeniy Kutsenko, HSE University, Russia; **Andrey Nikiforov**, Ministry of Economic Development of the Russia Federation, Russia

12:05	Ron Boschma <i>Utrecht University, the Netherlands</i> The Role of Scientific Capabilities for Regional Diversification
12:25	Kirill Tyurchev <i>HSE University, Russia</i> Does Complementarity Matter for the Emergence of New Specialization Industries in Russia?
12:45	Vasily Abashkin <i>HSE University, Russia</i>

	Entrepreneurial Activity in the Regional Specialization Industries During the COVID-Crisis
13:05	Yuri Simachev <i>HSE University, Russia</i> Russian Companies' Response to the Covid-19 Crisis and Industrial Policy Challenges
13:25	Discussion and Wrap-up
13:35	Coffee break

October 26, 2021 13:45–15:20

Session 17: Cooperation in Innovation: Practices of the Large Companies

Chair: Sergey Artemov, HSE University, Russia

13:50	Alexander Kashirin <i>Rostech, Russia</i> New Tools of Cooperative Interaction in the Processes of Creating Innovative Products
14:05	Natalia Ilina <i>Rosatom, Russia</i> Mechanisms for Expanding the Network of Partnerships Based on the Principle of 'One Window' in the State Corporation 'Rosatom'
14:20	Andrey Tulupov <i>Russian Railways, Russia</i> Shaping of Long-term Goal-setting for Coordination of the Innovation Ecosystem
14:35	Nikita Zhuchkov <i>Russian Post, Russia</i> Development of Interaction with Third-party Organizations Based on the Principles of 'Open Innovation' — Experience of Russian Post
14:50	Alexey Filimonov <i>Innovation and R&D Directors Club (iR&Dclub), Russia</i> Methodological Recommendations for State-owned Companies on Managing Requests for External Innovations
15:05	Pavel Rudnik, Konstantin Vishnevkiy <i>HSE University, Russia</i> Models of Cooperation with Large Companies in the High-tech Field
15:15	Discussion and Wrap-up