Term Paper

Supervisors and Topics

Dr. Umer Andrabi

PhD. Computer Science (Moscow Institute of Physics and Technology)

Research Interests

Information Technology, Telecommunication Systems, Wireless Communication, 5G and Beyond, AI and ML

Term Paper possible topics or fields of expertise:

- Telecommunication System

- Networks and Devices,

- Wireless Communication and Cellular Networks

- AI and ML in Telecommunication Systems

- Signal Processing , programming and protocols

- Software Engineering and Programming

- IT in Economics

https://www.hse.ru/en/org/persons/989602374

Dr. Alexey Bereznoy

Professional Interests:

- Corporate innovation strategies, digital platforms and ecosystems, platform-based multinationals, corporate alliances and partnerships in R&D

Term Paper possible topics:

- Digital transformation of the global management consulting industry;

- Development of innovation ecosystems by major international oil and gas companies

- R&D strategies of Big pharma firms

- Governance mechanism in platform-based companies

https://www.hse.ru/en/org/persons/123478840/

Oksana Bondarenko

Research Fellow, Expert, Centre for Industry and Corporate Projects,
Laboratory for Economics of Innovation

Research Interests

- Firm-level innovation strategies
  - Peer effect
  - ESG and eco-innovation
  - R&D management
  - Organizational structure and culture

Requirements

- I encourage quantitative research based on companies' databases (WIND, WBES, R&D Scoreboard, etc.)
- If you already have a certain topic in mind, we can discuss and adjust it
- Be prepared to work hard and report to me regularly

https://www.hse.ru/en/org/persons/39991366

Term Paper possible topics:

- Coopetition and innovation

- Organizational structure and corporate hierarchy / top management characteristics / innovation culture on innovation

- R&D decentralization and innovation

- Innovation in Entrepreneurial Ecosystems

- Sustainable innovation and sustainable business models

- Measuring innovation maturity of companies

- Experimental approach to studying firm-level innovation behavior

- Oligopoly models for knowledge sharing and R&D investment, innovation contests, measuring creativity, cognitive complexity, etc.

- Studying firm-level innovation based on historical data

Sofya Chernogortseva

Professional Interests

Emerging competences, business innovations, strategic innovations, innovations in HR, human capital and innovations, innovations in education, international lobbying

Term Paper possible topics or fields of expertise

1. Emerging competencies under the influence of digitalization in economic sectors

2. Companies' sustainable innovation culture development

3. Digital customer-centricic approaches in business and public services

https://www.hse.ru/en/org/persons/217180927

Nikolai Chichkanov (PhD)

Professional Interests

- Absorptive capacity assessment and measurement

- Knowledge-intensive business services (KIBS)

- Drivers and models of technology acceptance

- Innovation information disclosure

- Business model innovation (BMI)

Term Paper possible topics or fields of expertise

- Issues of innovation & knowledge management at company level

- Drivers & barriers of technology acceptance (specific technology chosen by a student)

- New methods of measuring innovations (text-based analysis)

- Founder / CEO characteristics vs innovation

https://www.hse.ru/en/staff/Chichkanov

Prof. Yury Yakovlevich Dranev

Professional Interests

Modelling Financial and Economic Effects and Risks of Technologies

Forecasting STI development and it's economic effects

Term Paper possible topics

STI specialization and economic development

Effects of AI implementation on performance of firms

Effects of Digital Financial Assets on Russian financial system

https://www.hse.ru/en/org/persons/8514877/

Mikhail Gershman

Professional Interests

- Science, technology and innovation policy analysis and evaluation

Term Paper possible topics

STI policy analysis and evaluation (this is a general research direction, particular topics should be negotiated)

Research objects: a particular STI policy tool / policy mix / policy dimension / strategy in a country / region

Research design:

- Comparative analysis of STI policies in countries / regions

- Revealing success factors or failures in STI policies

- Developing policy recommendations

Research methods: desk research, interviews, surveys, statistical analysis, case studies

You may visit my personal web page at HSE for more information

Dr. Mikhail M. Komarov

BIO

Professor Komarov joined HSE University in December 2011 as a lecturer. He served as deputy head of the faculty and till 2020 served as deputy head of the department. Since 2018 he is a professor in the department of Business Informatics at the Graduate School of Business of HSE University.

Professional Interests

- e-business
- mobile commerce and mobile business
- distributed ledger technology
- new business models

More research interests are indicated in the publications https://www.hse.ru/en/staff/mkomarov/#sci

Term Paper possible topics:

1. AI in specific business processes (area should be described, data should be collected in order to measure efficiency)

2. Distributed ledger technology for specific business use (area should be described, DLT efficiency should be measured)

3. Mobility as a resource for business (corporate mobility/customers mobility should be measured in order to identify best applications for one or another type of mobility).

4. Unmanned water boats and methodology of automated control of decision making process for such transportation companies.

5. Mixed reality technologies and AI for distant factory employees (how to arrange distant work for factories and overcome employees limitations).

Other topics might be discussed as well.

https://www.hse.ru/en/staff/mkomarov

Dr. Dirk Meissner

Professional Interests

- Technology and Innovation management

- Research and Innovation collaboration

- Innovation ecosystems

Term Paper possible topics or fields of expertise

- International research and innovation collaboration

- AI in technology and innovation management

https://www.hse.ru/en/org/persons/29168706/

Dr. Mikhail Miriakov

Assistant Professor | Head of the Unit for Quantitative Forecasting Methods

Professional Interests

1. R&D, Innovation, and Firm Valuation

2. Corporate Strategy, M&A, and Digital Transformation

3. Advanced Valuation Methods and Entrepreneurship

4. Management and Organizational Dynamics

Possible topics

1. The impact of R&D investment on the market capitalization of companies across various sectors of the Russian economy.

2. How patenting activity influences the valuation of technology companies.

3. The effect of innovative activity on a company's cost of equity.

4. Assessing the performance and value creation of technological Mergers & Acquisitions (M&A).

5. Evaluating the effects of digital transformation on corporate financial performance and firm value.

6. The impact of open innovation strategies (e.g., collaborations, alliances) on company growth and valuation.

7. Application of real options theory for the evaluation of investment projects in green technologies.

8. The role of venture capital financing in value creation for innovative startups.

9. The impact of FinTech adoption on company valuation.

10. Modelling the relationship between a company's life cycle stage and how innovation impacts its value.

11. Assessing the influence of top management team characteristics (e.g., experience, education) on innovation effectiveness and firm value.

https://www.hse.ru/en/org/persons/46726065

Dr. Alena Nefedova

Sociology of Science; Human capital in S&T

Key words:
Human Capital Development; Doctoral Training;
Academic Mobility; Science Labour Market

Term Paper possible topics:
• Attracting foreign researchers to emerging economies: barriers and success factors

• Transformation of doctoral education: Industrial and Professional PhD programs

• Academic vs. non-academic career paths of PhD holders: international patterns

• Digital transformation of research: AI tools and researcher competencies

• Work–life balance and burnout in academia: policy responses and institutional practices

• Student-initiated topics are welcome

Source: Research and Innovation Careers Observatory, OECD

https://www.hse.ru/en/staff/anefedova

Dr. Alexey Ponomarev   ponomarev@skoltech.ru

PhD, Engineering

Senior Vice President for Industrial Cooperation Skolkovo Institute of Science and Technology (Skoltech)

Professor, HSE

Requirements to students:

1. Be ready to work hard and regularly: NO chances to spend 1 month before a defense !

2. Deep literature overview from international sources. Readiness to careful desk study.

3. Be interesting in:

- inspiring technologies (engineering/biotech education is welcome, but not strictly necessary)

- real regulation "on the ground" (basic economical/social science education)

Research interests

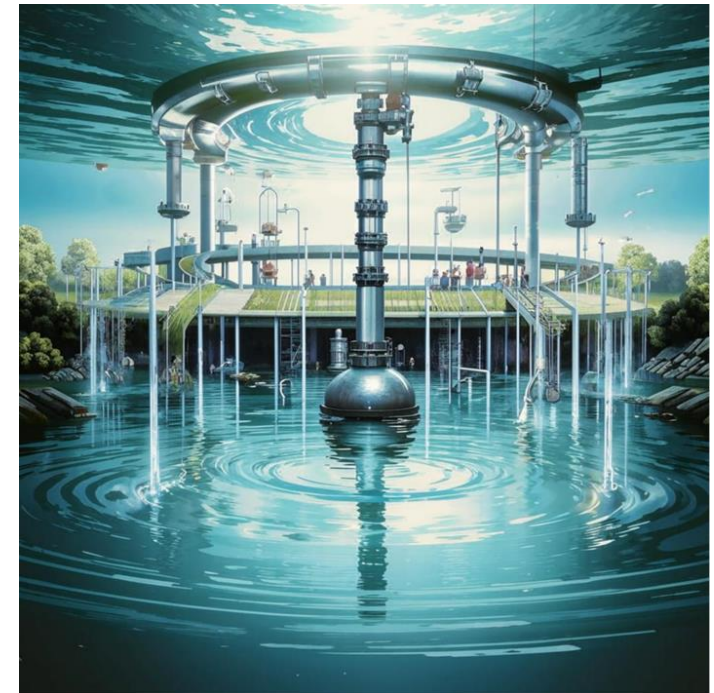| Development and implementation of breakthrough technologies:	Regulation in STI :

- Global Patterns Overview;
 	
  - Impact on Economy. Small and niche markets
 	
Mostly actual:
 	
Energy Transition & Energy Storage (Grids, Vehicles); Autonomies vehicles, BioTech; Industrial safety.
	Leading universities R@D activities
	
	Development and Implementation of State Regulation, Programs and Initiatives
	
	Corporate STI activities
	
	  Mostly actual:
	
	Instruments for R&D support: Basic vs Applied; Technological sovereignty; Sectorial Regulation, Internationals R&D Alliances; Public – Private Partnerships in DeepTech R&D

Liliana Proskuryakova

Research interests: sustainable development, green growth, energy and water technologies, technology foresight, resource policy, international science and technology cooperation

Term Paper possible topics:

- Future resource saving and resource efficiency technologies in industry X / country Y

- The implications of energy (water) technology policies for the energy (water) sector in country Y

- Application of ESG principles by energy (water) companies

- International science and technology cooperation priorities in countries A, B, C

https://www.hse.ru/en/staff/proskuryakova

Dr. Ozcan Saritas

Term Paper possible topics or fields of expertise

- Foresight, Scenario Planning and Strategic Roadmapping

- Trends, Weak Signals and Wild Cards shaping our futures

- Emerging Technologies and Human-AI Convergence

- The future of geopolitics and international relations

- Smart cities, security, energy and transport

https://www.hse.ru/en/org/persons/26823039

Dr. Irek Suleymanov

Professional Interests

Science diplomacy, International cooperation in science and technology, International Large Research Infrastructures

Term Paper possible topics

- Professionalization of Science Diplomacy: Models, Modalities, and Trends

- Coercive Science Diplomacy: Models of Instrumentalization and Co-option into State Policy

https://www.hse.ru/en/org/persons/964224344

Dr. Konstantin Vishnevskiy
Director of the Center for strategic analytics and big data

Bio

CEO of the intelligent Foresight Analytics system (iFORA)

15 years of experience in foresight, trends, roadmapping, digital technologies, AI etc.

Over 100 projects:
- Forecast of scientific and technological development of the Russian Federation until 2030
- Participation in the development of the Digital Economy of the Russian Federation Program and the federal project 'Artificial Intelligence'
- **Companies:** Sberbank, Gazprom, Rosatom, Rosneft, Aeroflot, Alrosa etc.
- **Ministries:** Digital Development, Communications and Mass Media, Industry and Trade, Science and Higher Education, Agriculture, Energy etc.
- **Regional governments:** Moscow, Samara Region, Leningrad Region, Tyumen Region, Republic of Tatarstan etc.

Lectures and trainings:
- Lectures at the University of Manchester (UK), NISTEP (Japan), the University of North Carolina (USA) etc.
- VK, Sberbank, Rosatom, etc.

Other:
- Member of the OECD Committee on Digital Economy Policy (CDEP)
- Member of the OECD Expert Group on AI (AIGO)
- Member of the International Society for Professional Innovation Management (ISPIM)

Master thesis/ Term Paper possible topics or field of expertise

- Artificial intelligence, inc. gen AI
- Digital technologies
- Analysis of big data
- High-tech industries
- Foresight for new technologies
- Corporate foresight
- Technology roadmapping

https://www.hse.ru/en/staff/konstantin/

Valeriya Vlasova

Head of Unit for Innovation Studies, ISSEK HSE
Research Fellow, Laboratory for Economics of Innovation
Associate Professor, Department of Educational Programmes
Candidate of Sciences in Economics (2021)
[Google Scholar](#)

Research interests:
- Business innovation strategies
- Industry-science cooperation
- Performance of national innovation systems
- Innovation culture

Possible topics for Term Papers:

- Role of centers of advanced research/ centers of excellence/ "collective research centers" / "research stations" in national innovation systems: approaches to evaluating their performance and effectiveness

- Business interest in R&D: strategies and models for implementing research projects

https://www.hse.ru/en/org/persons/46697442

Stanislav Zaichenko (Dr. rer. oec. / PhD)

Professional Interests

STI policy domains (human capital, institutional funding, competitive funding, etc.); AI cross-cutting technologies (incl. AI tools in S&T); integration of higher education and science; science-industry relationships, etc.

Term Paper possible topics or fields of expertise

- AI cross-cutting technologies: opportunities, challenges, policies.

- New technology (of student's choice) acceptance modelling (requires statistical analysis skills).

- Innovative work behavior modelling issues (requires statistical analysis skills).

- Own topic developed by student (to be discussed in depth).

https://www.hse.ru/en/org/persons/414998

Ilia Kuchin

Associate Professor Faculty of Economic Sciences, Deputy Director of Centre for Quantitative Modeling

Professional Interests

Cryptocurrency, Green finance, Asset pricing, Effects of Digital Technology

Term Paper possible topics or fields of expertise

1. The effect of digital technology development to economic growth

2. The impact of AI on economic efficiency

3. Modelling determinants of cryptocurrency prices

4. Risk factors in cryptocurrency pricing

5. Modelling volatility of cryptocurrencies using Markov-Switching GARCH models

6. The impact of green bonds on corporate environmental and financial performance

https://www.hse.ru/en/org/persons/65825225/

Evgenii Popov
Research Fellow, Senior Lecturer

My Professional Interests:

1. Actor-network theory (ANT) and flat ontology: Latour, Callon, Mol etc.

2. Discourse analysis (especially Critical Discourse Analysis (CDA)

3. Critical theory of Frankfurt School (1st and 2nd generation)

Term Paper possible topics or fields of expertise:

1. **Digital sociology** (digital skills, digital literacy, digital divide, digital transformation)

2. **Qualitative analysis** (discourse analysis, grounded theory, media/communication studies: representation and framing)

3. **AI for science** (usage practices, perceptions of constraints, application narratives)

https://www.hse.ru/en/org/persons/208519335/

Evgeniy Kutsenko, head of the ISSEK Russian Cluster Observatory

Term Paper possible topics or fields of expertise

- Regional innovation development (based on the regional STI statistics database)

- Global cities technological or creative development (based on the HSE GCII database)

- Entrepreneurial dynamics in Russia, Russian regions, particular industries

- Evolution of economic specialization of Russian regions / cities

- Creative specialization of Russian regions / cities

- Spatial distribution of cultural institutions

- R&D centers in Moscow (based on the special survey)

https://www.hse.ru/en/staff/ekutsenko/

Dr. Kirill Tyurchev

ISSEK Russian Cluster Observatory Deputy Director

Professional Interests

- Urban and regional innovation systems in comparative perspective
- Innovation policy and smart specialization strategy
- Superstar economy

https://www.hse.ru/en/org/persons/65855647

Term Paper possible topics or fields of expertise

- Urban and regional innovation measurement and competitiveness assessment
- Innovation ecosystem development in developed and emerging economies
- Innovation ecosystem transformation
- Innovation governance and multi-level policy coordination

Recent publications

Boos, V., Ivanova, E., Kutsenko, E., Tyurchev, K. (2025). Portraying Creative Industries in the BRICS Economic Specializations: A Superstar Approach. In *The Innovation Competitiveness of BRICS Countries*. Singapore: Springer Nature Singapore.

Kutsenko, E., Boyakova, K., Ostashchenko, T., Tyurchev, K., Artemov, S. (2024). When size does not matter: Innovation attractiveness factors of medium-sized cities. *Voprosy Ekonomiki*, 6.

Kutsenko, E., Tripathi, S., Tyurchev, K. (2023). Does complementarity matter for the emergence of new specialization industries in the regions of Russia? *Regional Science Policy & Practice*, *15*(9), 2126-2156.

Dr. Sergey A. Revyakin

Background

- Expert in the development and implementation of digital solutions for big data analysis (social-economic development indicators, scientific articles, patents, marketing research reports, tenders, etc.)

- Ex-President of the Corporate Division at Elsevier BV (Scopus, SciVal, ScienceDirect, and other databases)

- Director of the Centre for Strategies and Programs at HSE University

Professional interests and areas of expertise

- Digital economics

- STI & innovation policy

- Scientometrics

- Innovative maturity in companies

- Market Research

https://www.hse.ru/en/org/persons/14290235