

# Digital Transformation & Global Society – DTGS-2020

<http://dtgs-conference.org/>

## CONFERENCE PROGRAM OVERVIEW

<b>June 17, 2020 (Wednesday)</b>	
<b>10:00 – 10:30</b>	Information Society & Technology Week Opening & Welcome [RUS / ENG]: Joint Event for DTGS and IMS Conferences
<b>15:00 – 18:00</b>	Young Scholars Forum
<b>June 18, 2020 (Thursday)</b>	
<b>10:00 – 10:30</b>	Conference Opening
<b>10:30 – 12:00</b>	Social Informatics and Online Media
<b>12:10 – 13:40</b>	E-Society
<b>13:40 – 14:30</b>	<i>Lunch</i>
<b>14:30 – 15:50</b>	E-Polity
<b>16:00 – 18:00</b>	Online Seminar «Electronic Participation: Concepts, Technologies and Interdisciplinarity»
<b>June 19, 2020 (Friday)</b>	
<b>10:00 – 12:00</b>	Smart City
<b>12:10 – 14:00</b>	E – Health
<b>14:00 – 15:00</b>	<i>Lunch</i>
<b>15:00 – 16:10</b>	E – Economy
<b>16:20 – 17:40</b>	E – Humanities

		YOUNG SCHOLARS FORUM
17 June 2020	15:00 – 18:00	MODERATORS: Yury KABANOV, Ilya MUSABIROV, Higher School of Economics, St. Petersburg, Russia
<b>Fog Oriented Model for Data Collection in the Networks of Mobile Devices</b>		
Aung MYOTHAW	ITMO University, Russia	
Alexander VODYAHO	St. Petersburg State Electrotechnical University, Russia	
Nataly ZHUKOVA	St. Petersburg Institute for Informatics and Automation of the RAS, Russia	
Abbas SADDAM ABBAS	St. Petersburg State Electrotechnical University, Russia	
<b>Analysis of users ' communicative interaction based on social networks</b>		
Viktoria TITOVA	Novosibirsk State Technical University, Russia	
Kurcheeva GALINA	Novosibirsk State Technical University, Russia	
<b>Implementation of the concept of “Smart city for people” in the city of St. Petersburg</b>		
Mariya FROLOVA	St. Petersburg State Forest Technical University, Russia	
<b>Legal Requirements Conformity Verification of Public Processes: Algerian Social Security School Case Study</b>		
Kaouther MEZAACHE	University of Science and Technology Houari Boumediene, Algeria	
Latifa MAHDAOUI	University of Science and Technology Houari Boumediene, Algeria	
Amina CHEROUANA	University of Science and Technology Houari Boumediene, Algeria	
<b>Token Valuation: Business Perspective</b>		
Natalia POLYAKOVA	National Research University Higher School of Economics, Russia	
Tatiana YAKUSHKINA	National Research University Higher School of Economics, Russia	
<b>Neural Network Forecasting of Events In Smart City Interests</b>		
Vasiliy OSIPOV	St. Petersburg Institute for Informatics and Automation of the RAS, Russia	
Dmitriy MILOSERDOV	St. Petersburg Institute for Informatics and Automation of the RAS, Russia	
<b>Machine Learning Models Interpretations: User Demands Exploration</b>		
Anna SMIRNOVA	National Research University Higher School of Economics, Russia	
Alena SUVOROVA	National Research University Higher School of Economics, Russia	
<b>Problems of Designing Polylingual Ontology OntoMathEdu</b>		
Anastasia DYUPINA	Kazan Federal University, Russia	
Marina FALILEEVA	Kazan Federal University, Russia	
<b>Game Experience Evaluation. A Study of Game Reviews on the Steam Platform</b>		
Irina BUSURKINA	National Research University Higher School of Economics, Russia	
Valeria KARPENKO	National Research University Higher School of Economics, Russia	
Ekaterina TULUBENSKAYA	National Research University Higher School of Economics, Russia	
<b>Artificial intelligence in the “Our St. Petersburg” e-participation portal functioning</b>		
Petr BEGEN	ITMO University, Russia	
<b>Value dimensions in the reviews of the MOOCs Students</b>		
Milena OLESHKO	National Research University Higher School of Economics, Russia	
Anna KOSTROVA	National Research University Higher School of Economics, Russia	
Roman LISYUKOV	National Research University Higher School of Economics, Russia	
<b>Developing Prognostic Models of User's Informational Image with the Automated Social Networks Data Processing Methods</b>		
Boris NIZOMUTDINOV	ITMO University, Russia	
Alexander TROPNIKOV	ITMO University, Russia	
Anna UGLOVA	The Herzen State Pedagogical University of Russia, Russia	

18 June 2020	10:30 – 12:00	MODERATOR: Olessia KOLTSOVA, HSE – St. Petersburg
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**Hybrid method of multiple factor data clusterization**

Andrey TELEVNOY	ITMO University, Russia
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Sergei IVANOV	ITMO University, Russia
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Nataliya GORLUSHKINA	ITMO University, Russia
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**Non-Discrete Sentiment Dataset Annotation: Case Study for Lövheim Cube Emotional Model**

Anastasia KOLMOGOROVA	Siberian Federal University, Russia
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Alexander KALININ	Siberian Federal University, Russia
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Alina MALIKOVA	Siberian Federal University, Russia
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**Mass Media Evaluation Using Topic Modelling**

Kirill YAKUNIN	IICT, Satbayev University, Kazakhstan
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Ravil MUKHAMEDIEV	IICT, Satbayev University, Kazakhstan, ISMA university, Latvia
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Rustam MUSSABAYEV	IICT, Kazakhstan
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Timur BULDYBAYEV	Information-Analytical Center, Kazakhstan
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Yan KUCHIN	IICT, Kazakhstan
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Sanzhar MURZAKHMETOV	IICT, Satbayev University, Kazakhstan
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Ulzhan OSPANOVA	Information-Analytical Center, Kazakhstan
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Rassul YUNUSSOV	Satbayev University, Kazakhstan
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**Factors of Temporal Behavior in Online Media: What Shapes Time on Internet?**

Galina LUKYANOVA	St. Petersburg State University, Russia
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Denis MARTYANOV	St. Petersburg State University, Russia
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Diana BUDKO	St. Petersburg State University, Russia
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		E-SOCIETY
18 June 2020	12:10 – 13:40	MODERATOR: Yury KABANOV, National Research University Higher School of Economics, Russia
<b>Cyber-social Trust in Different Spheres: An Empirical Study</b>		
Lyudmila VIDIASOVA	ITMO University, Russia	
Yaroslava TENSINA	ITMO University, Russia	
Elena BERSHADSKAYA	Penza State Technological University, Russia	
<b>Environmental Agenda in the Protest Campaigns: the Components and Results</b>		
Alexander SOKOLOV	Yaroslavl State University, Russia	
Alexey BELYAKOV	Yaroslavl State University, Russia	
Alexander FROLOV	Yaroslavl State University, Russia	
Svetlana MIRONOVA	Yaroslavl State University, Russia	
<b>Offline and Online Citizen Activism in Russia</b>		
Alexander SOKOLOV	Yaroslavl State University, Russia	
Asya PALAGICHEVA	Yaroslavl State University, Russia	
Yuri GOLOVIN	Yaroslavl State University, Russia	
<b>Key Parameters of Internet Discussions: Testing the Methodology of Discourse Analysis</b>		
Olga FILATOVA	St. Petersburg State University, Russia	
Daniil VOLKOVSKII	St. Petersburg State University, Russia	
<b>Young citizens attitudes towards CCTV and online surveillance in Russia</b>		
Anna GURINSKAYA	St. Petersburg State University, Russia	

		E-POLITY
18 June 2020	14:30 – 15:50	MODERATOR: Leonid SMORGUNOV, St. Petersburg State University
<b>Identifying Duplication in Statistical Indicators: Methodic Approach</b>		
Elena DOBROLYUBOVA	Russian Academy of National Economy and Public Administration, Russia	
Oleg ALEXANDROV	CEFC Group, Russia	
<b>So What's the Plan? Mining State Planning Documents</b>		
Ekaterina ARTEMOVA	National Research University Higher School of Economics, Russia	
Elena TUTUBALINA	Kazan Federal University, Russia	
Ivan SMUROV	ABBYY, Moscow Institute of Physics and Technology, Russia	
Vladimir IVANOV	Innopolis University, Russia	
Tatiana BATURA	Novosibirsk State University, Ershov Institute of Informatics Systems SB RAS, Russia	
Anna GOLENKOVSKAYA	Kazan Federal University, Russia	
<b>On the Legal Issues of Face Processing Technologies</b>		
Roman AMELIN	Saratov State University, Russia	
Sergey CHANNOV	Russian Academy of National Economy and Public Administration, Russia	
<b>Survey Analysis System for Participatory Budgeting Studies: Saint Petersburg case</b>		
Nikolay Teslya	St. Petersburg Institute for Informatics and Automation of the RAS, Russia	
Denis BAKALYAR	ITMO University, Russia	
Denis NECHAEV	ITMO University, Russia	
Andrei CHUGUNOV	ITMO University, Russia	
Georgiy MOSKVITIN	ITMO University, Russia	
Nikolay SHILOV	ITMO University, Russia	
<b>Citizens' attitudes to e-government: a study across ten Russian regions</b>		
Leonid SMORGUNOV	St. Petersburg State University, Russia	
Olga POPOVA	St. Petersburg State University, Russia	
Elena TROPINOVA	St. Petersburg State University, Russia	

		<b>Electronic Participation: Concepts, Technologies and Interdisciplinarity Online International Seminar</b>
<b>18 June 2020</b>	<b>16:00 – 18:00</b>	<b>MODERATOR:</b> Yury KABANOV, HSE – St. Petersburg, Yuri Misnikov, ITMO University

**PROVISIONAL LIST OF SPEAKERS**

Noella EDELMANN, Center for E-Governance, Danube University Krems, Austria  
 Yury KABANOV, HSE-St. Petersburg, ITMO University, Russia  
 Mariana LAMEIRAS, UNU-EGOV, Portugal  
 Yuri MISNIKOV, ITMO University, Russia  
 Morten MEYERHOFF NIELSEN, UNU-EGOV, Portugal  
 Aleksandr RIABUSHKO, Government for Citizens, WeGO Eurasia Regional Office, Russia  
 Marco STEENBERGEN, University of Zurich, Switzerland

e-Governance Center at ITMO University (St. Petersburg, Russia) organizes an international online seminar “Electronic Participation: Concepts, Technologies and Interdisciplinarity” within the 5th International Conference “Digital Transformation & Global Society” (DTGS 2020). The mission of the seminar is to bring scholars and experts on from different countries to discuss topical issues related to the research and practice of e-participation. It is organized to define the status and current trends of e-participation as a scientific concept and as a discipline, to find some common grounds for its future technological and policy development.

**TOPIC & QUESTIONS**

E-Participation has become an important area of interdisciplinary research, being institutionalized in several international conferences (e.g. IFIP ePart, ICEGOV, dg.o) and scientific journals. Yet, still there are open questions on the status of e-participation as a scientific concept, on the one hand, and a discipline, on the other. The scholars differ on whether the term has its descriptive or explanatory value, and what should be included into the volume of the concept. Recent trends in governance, like the social media use, smart technologies, algorithmic governance and big data analytics are also challenging the concept, calling for either its expansion or transformation (e.g. digital, smart participation), as if the term were a label rather than a scientific concept. At the same time, the status of e-participation as a discipline is also a matter for discussion. Many researchers stress its multidisciplinary nature, while at the same time admitting its lack of interdisciplinary collaboration and little impact on practical implementation of e-participation initiatives.

- 1) Is e-participation a meaningful concept with descriptive and explanatory value, or is it rather a label that should be replaced when the technologies are changing (e.g. to “digital” or “smart” participation)?
- 2) What is the status of e-participation as a discipline? What are the major achievements of e-participation research across domains and countries? Can it become truly interdisciplinary?
- 3) How is the e-participation academic community developing? What role do international conferences and other initiatives play in the collective research identity of these community?
- 4) What role does technology play in e-participation research and practice? What is the impact of various e-participation technologies (e.g. e-petitions, social media) on public governance and civic engagement?

In cooperation with WeGO Eurasia Regional Office		SMART CITY
19 June 2020	10:00 – 12:00	MODERATOR: Alexander RIABUSHKO, WeGO Eurasia Regional Office
<b>Opening:</b> Mrs. Svetlana OPENYSHEVA, Secretary General, WeGO Eurasia Regional office		
<b>E-participation mechanisms at municipal level in Saint-Petersburg: expert survey results</b>		
Evgenii VIDIASOV	ITMO University, Russia	
Lyudmila VIDIASOVA	ITMO University, Russia	
<b>Analysis Methods of Spatial Structure Metrics for Assessment of Area Development Effectiveness</b>		
Alexander ZUEV	Volgograd State Technical University, Russia	
Danila PARYGIN	Volgograd State Technical University, Russia	
Natalia SADOVNIKOVA	Volgograd State Technical University, Russia	
Alexander ALESHKEVICH	Volgograd State Technical University, Russia	
Dmitry BOIKO	GeoClever, Russia	
<b>Smart Solutions for Implementation of Sustainable Development Goals (SDGs) in Arctic Cities</b>		
Irina SHMELEVA	ITMO University, Russia	
Anastasiia ANTOSHKINA	ITMO University, Russia	
<b>Intelligent unmanned technology in urban environments</b>		
Ravil Mukhamediev	Satbayev University, Kazakhstan	
Yan Kuchin	Institute of Information and Computational Technologies, Kazakhstan	
Kirill Yakunin	Satbayev University, Kazakhstan	
Adilkhan Symagulov	Satbayev University, Kazakhstan	
Maryam Ospanova	Satbayev University, Kazakhstan	
Ilyas Assanov	Satbayev University, Kazakhstan	
Marina Yelis	Satbayev University, Kazakhstan	
<b>Modelling Twilight Illuminance in Urban Area Using Machine Learning Techniques</b>		
Ekaterina PLESOVSKAYA	ITMO University, Russia	
Sergey IVANOV	ITMO University, Russia	
<b>Evaluating a City's Public Service Infrastructure Based on Online Data</b>		
Aleksandra NENKO	ITMO University, Russia	
Natalia BELIAKOVA	National Research University Higher School of Economics, Russia	
Koniukhov ARTEM	ITMO University, Russia	

		E-HEALTH
19 June 2020	12:10 – 14:00	MODERATOR: Georgy KOPANITSA, ITMO University, Russia
<b>Sign Language Recognition Based on Notations and Neural Networks</b>		
Alexey PRIKHODKO	Novosibirsk State Technical University, Russia	
Mikhail GRIF	Novosibirsk State Technical University, Russia	
Maxim BAKAEV	Novosibirsk State Technical University, Russia	
<b>Ontology-Based Bibliometric Analysis of PubMed Publications Related to Cognitive Reserves</b>		
Maxim BAKAEV	Novosibirsk State Technical University, Russia	
Olga RAZUMNIKOVA	Novosibirsk State Technical University, Russia	
Alexander LUKICHEV	Novosibirsk State Technical University, Russia	
<b>Public Resources for Detecting Mentions of Medical Data in Russian Social Media</b>		
Artem LOBANTSEV	ITMO University, Russia	
Victoria LOGINOVA	ITMO University, Russia	
Yulia BURLAKOVA	ITMO University, Russia	
Nikolay ANDREEV	ITMO University, Russia	
Victoria MATVEEVA	ITMO University, Russia	
Irina FILIMONOVA	ITMO University, Russia	
Natalia DOBRENKO	ITMO University, Russia	
Natalia GUSAROVA	ITMO University, Russia	
<b>Stroke ICU Patient Mortality Day Prediction</b>		
Oleg METSKER	ITMO University, Russia	
Igor VOZNIUK	The Saint Petersburg Research Institute of Emergency Medicine n.a. I.I. Dzhanelidze	
Elena MOROZOVA	The Saint Petersburg Research Institute of Emergency Medicine n.a. I.I. Dzhanelidze	
Georgy KOPANITSA	ITMO University, Russia	
Maria PROKHOROVA	The Saint Petersburg Research Institute of Emergency Medicine n.a. I.I. Dzhanelidze	
<b>Meditation Process Estimation Based on Smartphone Sensors and Wearable Electronics</b>		
Alexey KASHEVNIK	St. Petersburg Institute for Informatics and Automation of the RAS, Russia	
Igor LASHKOV	ITMO University, Russia	
Polina MIKHAILOVA	ITMO University, Russia	
Evgeny RIPACHEV	ITMO University, Russia	
Vladislav MALUTIN	ITMO University, Russia	



		E-ECONOMY
19 June 2020	15:00 – 16:10	MODERATOR: Maxim BAKAEV, Novosibirsk State Technical University, Russia
<b>Comparison of Intelligent Classification Algorithms for the Program Module for Development Support Personnel of High-Tech Service-Oriented Companies</b>		
Artem BERESNEV	ITMO University, Russia	
Natalia GUSAROVA	ITMO University, Russia	
<b>Why Entrepreneurial Competencies Are Essential for Business and Management Specialists in the Digital Economy Age?</b>		
Araksya MIRAKYAN	Lomonosov Moscow State University, Russia	
Svetlana BEREZKA	National Research University Higher School of Economics, Russia	
<b>The Younger Generation Collaborative Consumption Adoption Factors: Empirical Evidence from The Russian Market</b>		
Vera REBIAZINA	National Research University Higher School of Economics, Russia	
Nadiya ZBANDUT	National Research University Higher School of Economics, Russia	
<b>Financial inclusions in social networks: problems and prospects</b>		
Igor KLIOUTCHNIKOV	International Banking Institute, Russia	
Oleg KLIUCHNIKOV	International Banking Institute, Russia	
<b>Driving Factors of Online Reviews and eWOM in International Hotel Industry</b>		
Ekaterina BUZULUKOVA	National Research University Higher School of Economics, Russia	
Margarita SARKISIAN	National Research University Higher School of Economics, Russia	

		<b>E-HUMANITIES</b>
<b>19 June 2020</b>	<b>16:20 – 17:40</b>	<b>MODERATOR:</b> Anna Chizhyk, ITMO University, Russia
<b>Generation Z and Its Value Transformations: Digital Reality Vs. Phygital Interaction</b>		
Irina TOLSTIKOVA	ITMO University, Russia	
Olga IGNATIEVA	St. Petersburg State University, Russia	
Alexander PLETNEV	Saint Petersburg University of the Ministry of Internal Affairs of the Russian Federation, Russia	
Konstantin KONDRATENKO	St. Petersburg State University, Russia	
<b>The use of VR as a potential restorative environment in school during recess</b>		
Antti LÄHTEVÄNOJA	University of Jyväskylä, Finland	
Jani HOLOPAINEN	University of Helsinki, Finland	
Osmo MATTILA	University of Helsinki, Finland	
Petri PARVINEN	Aalto University, Finland	
<b>Limiting off-task behavior on laptops in classrooms increases student engagement: Use it, or they will abuse it</b>		
Martin BUTLER	Stellenbosch University, South Africa	
<b>Digital transformation of a museum: from a curriculum of art pieces to a space of experience</b>		
Ulyana ARISTOVA	National Research University Higher School of Economics, Russia	
Alexey ROLICH	National Research University Higher School of Economics, Russia	
Alexandra STARUSEVA-PERSHEEVA	National Research University Higher School of Economics, Russia	
Anastasiia ROLICH	National Research University Higher School of Economics, Russia	