



DIGITAL  
TRANSFORMATION &  
GLOBAL SOCIETY

**2<sup>nd</sup> International Conference  
Digital Transformation & Global Society – DTGS'17**

**St. Petersburg, Russia**

**21 – 23 June 2017**

# **CONFERENCE PROGRAM**



**HIGHER SCHOOL OF ECONOMICS**  
NATIONAL RESEARCH UNIVERSITY  
SAINT PETERSBURG

**Conference Venue:** ITMO University Congress Center, 9 Lomonosova str., St. Petersburg, Russia

## GENERAL CONFERENCE PROGRAM

### Day 1: 21 June 2017

9:00–10:00	<b>REGISTRATION</b> The Lobby (2 <sup>nd</sup> floor)
10:00–10:30	<b>OPENING &amp; WELCOME</b> The Conference Hall (2 <sup>nd</sup> floor)
10:30–14:00	<b>KEYNOTE LECTURES:</b>  <b>Great Empirical Discoveries in WWW World</b> Prof. Daniel A. ALEXANDROV, National Research University Higher School of Economics.  <b>The Power of Big Data</b> Dr. Gianluca DEMARTINI, University of Sheffield, United Kingdom  <b>Urban Health Decision Support: from Big Data to Predictive Models</b> Prof. Alexander A. BOUKHANOVSKY, ITMO University.  <b>Moderator:</b> Philipp KAZIN, ITMO University  The Conference Hall (2 <sup>nd</sup> floor)
14:00–15:00	<b>LUNCH</b> The Canteen (3 <sup>rd</sup> floor)
18:00–19:30	<b>POSTER SESSION &amp; WELCOME PARTY</b>  <b>CO-CHAIRS:</b> Andrei CHUGUNOV, ITMO University Yury KABANOV, National Research University Higher School of Economics  The Lobby (2 <sup>nd</sup> floor)

### Day 2: 22 June 2017

9:00– 10:00	<b>REGISTRATION</b> The Lobby (2 <sup>nd</sup> floor)
10:00 – 11:40	<b>PANEL SESSION 1. E-SOCIETY: SOCIAL MEDIA ANALYSIS</b> The Blue Hall (room 1221, 3 <sup>rd</sup> floor)

	<p><b>CO-CHAIRS:</b>  Daniel A. ALEXANDROV, National Research University Higher School of Economics  Andrei V. CHUGUNOV, ITMO University</p>
11:40 – 12:00	COFFEE BREAK
12:00 – 13:00	<p><b>KEYNOTE LECTURE</b></p> <p>The Blue Hall (room 1221, 3<sup>rd</sup> floor)</p> <p><b>Internet Censorship in China</b>  Dr. King-wa FU, The University of Hong Kong, Massachusetts Institute of Technology</p> <p><b>Moderator:</b> Daniel A. ALEXANDROV, National Research University Higher School of Economics</p>
13:00–14:00	<p>LUNCH</p> <p>The Canteen (3<sup>rd</sup> floor)</p>
14:00 – 15:40	<p><b>PANEL SESSION 2. E-POLITY: E-GOVERNMENT, E-PARTICIPATION &amp; THE NEW MEDIA</b></p> <p>The Blue Hall (room 1221, 3<sup>rd</sup> floor)</p> <p><b>CO-CHAIRS:</b>  Dr. King-wa FU, The University of Hong Kong, Massachusetts Institute of Technology  Maxim BAKAEV, Novosibirsk State Technical University, Russia</p>
15:40 – 16:00	COFFEE BREAK
16:00 – 17:40	<p><b>PANEL SESSION 3. E-SOCIETY: EDUCATION AND THE HUMANITIES</b></p> <p>The Blue Hall (room 1221, 3<sup>rd</sup> floor)</p> <p><b>CO-CHAIRS:</b>  Olessia KOLTSOVA, National Research University Higher School of Economics  Lyudmila VIDIASOVA, ITMO University</p>
18:00 – 20:00	<p><b>GALA DINNER &amp; BEST PAPERS AWARDS</b></p> <p>The Banquet Hall (3<sup>rd</sup> floor)</p>

## Day 3: 23 June 2017

10:00 – 11:30	<b>PANEL SESSION 4. E-HEALTH</b>
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	<p>The Blue Hall (room 1221, 3<sup>rd</sup> floor)</p> <p><b>CO-CHAIRS:</b></p> <p>Christopher GERRY, National Research University Higher School of Economics  Alexandra KONRADI, ITMO University (t.b.c)</p>
11:30 – 12:00	COFFEE BREAK
12:00 – 13:00	<p><b>KEYNOTE LECTURE</b></p> <p>The Blue Hall (room 1221, 3<sup>rd</sup> floor)</p> <p><b>The Future of Urban Mobilty</b>  Prof. Carlos GERSCHENSON, Universidad Nacional Autónoma de México &amp; MIT Senseable City Lab</p> <p><b>Moderator:</b> Alexandra NENKO, ITMO University</p>
13:00 – 14:00	LUNCH
14:00 – 15:30	<p><b>PANEL SESSION 5. E-CITY</b></p> <p><b>CO-CHAIRS:</b>  Carlos GERSCHENSON, Universidad Nacional Autónoma de México &amp; MIT Senseable City Lab  Alexandra NENKO, ITMO University</p>
15:30 – 16:00	COFFEE BREAK
16:00 – 17:30	<p><b>PANEL SESSION 6. E-ECONOMY &amp; E-FINANCE</b></p> <p>The Blue Hall (room 1221, 3<sup>rd</sup> floor)</p> <p><b>CO-CHAIRS:</b></p> <p>Igor KLYUCHNIKOV, International Banking Institute, Russia (t.b.c.)</p>
17:30 – 18:00	<p><b>CONFERENCE CLOSING</b></p> <p>The Blue Hall (room 1221, 3<sup>rd</sup> floor)</p>
18:00 – 19:30	<b>SOCIAL EVENT FOR PARTICIPANTS</b>

## Poster Session

June 21, 2017	18:00–19:30	The Blue Hall (room 1221, 3rd floor)
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<b>Analysis and Classification of Multi-Opinionated Content in the Era of Cyber Activism</b>	
Priya DHAWAN	Indira Gandhi Delhi Technical University for Women
Gopika BHARDWAJ	Indira Gandhi Delhi Technical University for Women
Rishabh KAUSHAL	Indira Gandhi Delhi Technical University for Women
<b>Learning to Identify Actionable Information from Social Media for Effective Governance</b>	
Himani GARG	Indira Gandhi Delhi Technical University for Women, India
Charu BANSAL	Indira Gandhi Delhi Technical University for Women, India
Rishabh KAUSHAL	Indira Gandhi Delhi Technical University for Women, India
Indra THANAYA	Indira Gandhi Delhi Technical University for Women, India
<b>Relationship between the Internet and Political Regime: A Literature Review and Empirical Testing</b>	
Yury KABANOV	National Research University Higher School of Economics, Russia
Bogdan ROMANOV	National Research University Higher School of Economics, Russia
<b>Estimation of relationship between domains of ICT semantic network</b>	
Ravil I. Mukhamediev	KazNRTU, KBTU, Kazakhstan
Ramiz M. Aliguliyev	Institute of Information Technology of Azerbaijan National Academy of Sciences, Azerbaijan
Jelena Muhamedijeva	IICT, Almaty, Kazakhstan
<b>Challenges of the Digital Economy in the Context of Globalization: Training of PhDs in Software Engineering in Russia</b>	
Vladimir Khalin	St. Petersburg State University, Russia
Alexander Yurkov	St. Petersburg State University, Russia
Yury Kosov	Russian Presidential Academy of National Economy and Public Administration, Russia

<b>Assessing Subjective Quality of Web Interaction with Neural Network as Context of Use Model</b>	
Maxim Bakaev	Novosibirsk State Technical University, Russia
Vladimir Khvorostov	Novosibirsk State Technical University, Russia
Tatiana Laricheva	Novosibirsk State Technical University, Russia
<b>Online Socioeconomic Activity in Russia: Patterns of Dynamics and Regional Diversity</b>	
Dmitrii Verzilin	St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS), Russia
Tatiana Maximova	ITMO University, Russia
Irina Sokolova	St. Petersburg University, Russia
<b>NBIC convergence as a stage of transition of Saint-Petersburg's E-Government information space to the sixth techno-economic paradigm</b>	
Sergey Dyatlov	St. Petersburg State Economic University, Russia
Oleg Lobanov	St. Petersburg State Economic University, Russia
<b>Fashion bloggers as cultural intermediaries: the meaning of brand choices in style production</b>	
Margarita Kuleva	National Research University Higher School of Economics, Russia
Daria Maglevanaya	National Research University Higher School of Economics, Russia
<b>Blocking Social Media. Reasoning and Legal Grounds</b>	
Ekaterina Shireeva	Lobachevsky State University of Nizhni Novgorod, Russia
Andrei Kaplunov	Saint-Petersburg University of the Ministry of the Interior of the Russian Federation, Russia
Vladimir Ukhov	Saint-Petersburg University of the Ministry of the Interior of the Russian Federation, Russia
Aleksei Martynov	Lobachevsky State University of Nizhni Novgorod, Russia
<b>Computer games in Focus of Modern Russian and American Legislation</b>	
Olga Kononova	ITMO University; The Sociological Institute of the RAS, Russia
Aleksa Grant	Versani, USA
<b>Mobile Device Security, Management of Personal Privacy and Business Data</b>	

Ekaterina Pshehotskaya	Moscow Polytechnic University, Russia
Oleg Mikhalskiy	Moscow Polytechnic University, Russia
<b>Protection against information in eSociety: using Data Mining methods to counteract unwanted and malicious data</b>	
Igor Kotenko	St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS), Russia
Igor Saenko	St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS), Russia
Andrey Chechulin	St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS), Russia
<b>Problems of legal regulation of games with augmented reality (example of the Russian Federation)</b>	
Roman Amelin	Saratov State University
Sergey Channov	Russian Presidential Academy of National Economy and Public Administration
Galina Komkova	Saratov State University
<b>eGov Services Consumers in the Process of Innovations' Diffusion: the Case from St. Petersburg</b>	
Lyudmila Vidasova	ITMO University
Andrei Chugunov	ITMO University

# PLENARY SESSIONS PROGRAM

## June 22, 2017

### Panel Session 1. E-Society: Social Media Analysis

#### Co-Chairs:

Daniel A. ALEXANDROV, National Research University Higher School of Economics

Andrei V. CHUGUNOV, ITMO University

**June 22, 2017**

**10:00–11:40**

The Blue Hall (room 1221, 3<sup>rd</sup> floor)

#### **Digital Inequality in Russia through the Use of Social Network Site: A Cross-Regional Comparison**

Yuri Rykov	National Research University Higher School of Economics, Russia
Oleg Nagornyy	National Research University Higher School of Economics, Russia
Olessia Koltsova	National Research University Higher School of Economics, Russia

#### **Detecting interethnic relations with the data from social media**

Olessia Koltsova	National Research University Higher School of Economics, Russia
Sergey Nikolenko	National Research University Higher School of Economics, Russia
Svetlana Alexeeva	National Research University Higher School of Economics, Russia
Oleg Nagorny	National Research University Higher School of Economics, Russia
Sergei Koltcov	National Research University Higher School of Economics, Russia

#### **Content Sharing in Conflictual Ad-Hoc Twitter Discussions: National Patterns or Universal Trends**

Svetlana Bodrunova	St. Petersburg State University, Russia
Anna Litvinenko	Freie Universitaet Berlin, Germany
Ivan Blekanov	St. Petersburg State University, Russia
Anna Smoliarova	St. Petersburg State University, Russia

#### **Ideological Segregation in the Russian Cyberspace: Evidences from St Petersburg**

Denis Martyanov	St. Petersburg State University, Russia
Il'ia Bykov	St. Petersburg State University, Russia

#### **Russian Anti-corruption protests: How Russian Twitter sees it?**

Valerii Nechai	National Research University Higher School of Economics, Russia
Dmitry Goncharov	National Research University Higher School of Economics, Russia



**Panel Session 2. E-Polity: E-Government, E-Participation & The New Media**

**Co-Chairs:**

Dr. King-wa FU, The University of Hong Kong, Massachusetts Institute of Technology  
 Maxim BAKAEV, Novosibirsk State Technical University, Russia

<b>June 22, 2017</b>	<b>14:00–15:40</b>	<b>The Blue Hall (room 1221, 3rd floor)</b>
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<b>Policy Networks from Metaphor to Measurement: MEPs and Interest Groups Representatives on Twitter</b>	
Michaël Boireau	Université Libre de Bruxelles, Belgium
<b>Public Service Ethics v. Social Media Use in Russia</b>	
Mikhail Bundin	Lobachevsky State University of Nizhni Novgorod, Russia
Aleksei Martynov	Lobachevsky State University of Nizhni Novgorod, Russia
Yury Avrutin	Saint-Petersburg University of MIA, Russia
<b>Measuring Progress in E-Participation in Russia: the Results of a Multi-Method Case Study</b>	
Lyudmila Vidasova	ITMO University, Russia
Yaroslava Tensina	ITMO University, Russia
<b>Common Government Services Portal of Russian Federation. How do people use it? What do they think about it?</b>	
Evgeniya Petrova	National Research University Higher School of Economics, Russia
<b>Requisites for open budgeting: comparison of ‘budget for citizens’ in Russian regions using QCA</b>	
Leonid Smorgunov	St. Petersburg State University

### Panel Session 3. E–Society: Education and the Humanities

**Co-Chairs:**

Olessia KOLTSOVA, National Research University Higher School of Economics  
Lyudmila VIDIASOVA, ITMO University

**June 22, 2017**

**16:00–17:40**

**The Blue Hall (room 1221,  
3rd floor)**

<b>Developing social competence of preschoolers in digital era: gender dimensions</b>	
Yuliya Proekt	Herzen State Pedagogical University of Russia, Russia
Alexandra Kosheleva	Herzen State Pedagogical University of Russia, Russia
Voiletta Lugovaya	Herzen State Pedagogical University of Russia, Russia
Valeriya Khoroshikh	Herzen State Pedagogical University of Russia, Russia
<b>Knowledge Management Trends in the Digital Economy Age</b>	
Tatiana Gavrilova	St. Petersburg University, Russia
Artem Alsufyev	St. Petersburg University, Russia
Liudmila Kokoulina	St. Petersburg University, Russia
<b>The Effectiveness of Leading Russian Universities in Achieving Graduate-Level Employability from Social Network Data</b>	
Philip Kazin	ITMO University, Russia
Oksana Pavlova	ITMO University, Russia
Stephen Hagen	ITMO University, Russia
Nikolay Butakov	ITMO University, Russia
<b>Analyzing Web Presence of Russian Northwestern Universities</b>	
Anastasiya Kuznetsova	National Research University Higher School of Economics, Russia
Stanislav Pozdniakov	National Research University Higher School of Economics, Russia
Ilya Musabirov	National Research University Higher School of Economics, Russia
<b>Strategic Planning of Science City Socio-Economic Development</b>	
Alexander Raikov	Institute of Control Sciences RAS, Russia

## June 23, 2017

### Panel Session 4. E-Health

**Co-Chairs:**

Christopher GERRY, National Research University Higher School of Economics

Alexandra KONRADI, ITMO University (t.b.c.)

<b>June 23, 2017</b>	<b>10:00-11:30</b>	<b>The Blue Hall (room 1221, 3rd floor)</b>
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**Dynamically Integrating Electronic- with Personal Health Records for Ad-hoc Healthcare Quality Improvements**

Aleksandr Kormiltsyn	Tallinn University of Technology, Estonia
Alex Norta	Tallinn University of Technology, Estonia

**Comparison of electronic workflow for European and Russian healthcare services**

Irina Sergeeva	ITMO University, Russia
Ariadna Aleksandrova	ITMO University, Russia
Yulia Ryabukhina	ITMO University, Russia
Ekaterina Ostapovets	ITMO University, Russia

**An ontology-based system for storing the research results on medical diagnostics**

Aleksandra Vatian	ITMO University, Russia
Natalia Dobrenko	ITMO University, Russia
Natalia Gusarova	ITMO University, Russia
Anton Filatov	Saint-Petersburg Mining University, Russia
Galina Artemova	ITMO University, Russia

**Boosting performance of influenza outbreak prediction framework**

Vasiliy N. Leonenko	ITMO University, Russia
Nikita E. Seleznev	ITMO University, Russia

### Panel Session 5. E-City

**Co-Chairs:**

Carlos GERSCHENSON, Universidad Nacional Autónoma de México & MIT Senseable City Lab Alexandra NENKO, ITMO University		
<b>June 23, 2017</b>	<b>14:00 – 15:30</b>	<b>The Blue Hall (room 1221, 3rd floor)</b>

<b>Data-based Energy Provision for Smart Cities</b>	
Ralf-Martin Soe	Tallinn University of Technology, Estonia
<b>GAND: Multi-criteria decision analysis method for choice the most preferable public transport network designed using geospatial data</b>	
Danila Parygin	Volgograd State Technical University, Russia
Alexey Golubev	Volgograd State Technical University, Russia
Natalia Sadovnikova	Volgograd State Technical University, Russia
Maxim Shcherbakov	Volgograd State Technical University, Russia
<b>Hotel value dimensions and tourists' perception of the city. The case of St.Petersburg</b>	
Nikita Kaspruk	National Research University Higher School of Economics, Russia
Olga Silyutina	National Research University Higher School of Economics, Russia
Viktor Karepin	National Research University Higher School of Economics, Russia
Ilya Musabirov	National Research University Higher School of Economics, Russia
<b>Smart city development with consideration of needs and values of the population</b>	
Sergey Mityagin	ITMO University, Russia
Tikhonova Olga	ITMO University, Russia
Sergey Drojgin	ITMO University, Russia

## Panel Session 6. E-Economy & E-Finance

### Co-Chairs:

Igor KLYUCHNIKOV, International Banking Institute, Russia (t.b.c.)

June 23, 2017

16:00 – 17:30

The Blue Hall (room 1221,  
3rd floor)

### Financial markets data collection using the information model of interagency cooperation and the international system of codification of financial instruments

Yuri Lipuntsov      Moscow State University, Russia

Richard Beach      Bloomberg LP, USA

Inessa Collier      Bloomberg LP, United Kingdom

### Digital Economy and Knowledge Barriers: Their Origin and Dealing with Them

Evgeny Zinder      FOSTAS Foundation, Russia

Irina Yunatova      FOSTAS Foundation, Russia

### Is Russia Ready for Digital Transformation?

Elena Dobrolyubova      Russian Academy of National Economy and Public Administration, Russia

Oleg Alexandrov      CEFC Group, Russia

Alexey Yefremov      Russian Academy of National Economy and Public Administration, Russia

### Nascent Entrepreneurs in Social Media: Social Capital as Factor of Success

Olga Dornostup      National Research University Higher School of Economics, Russia

Alena Suvorova      National Research University Higher School of Economics, Russia