

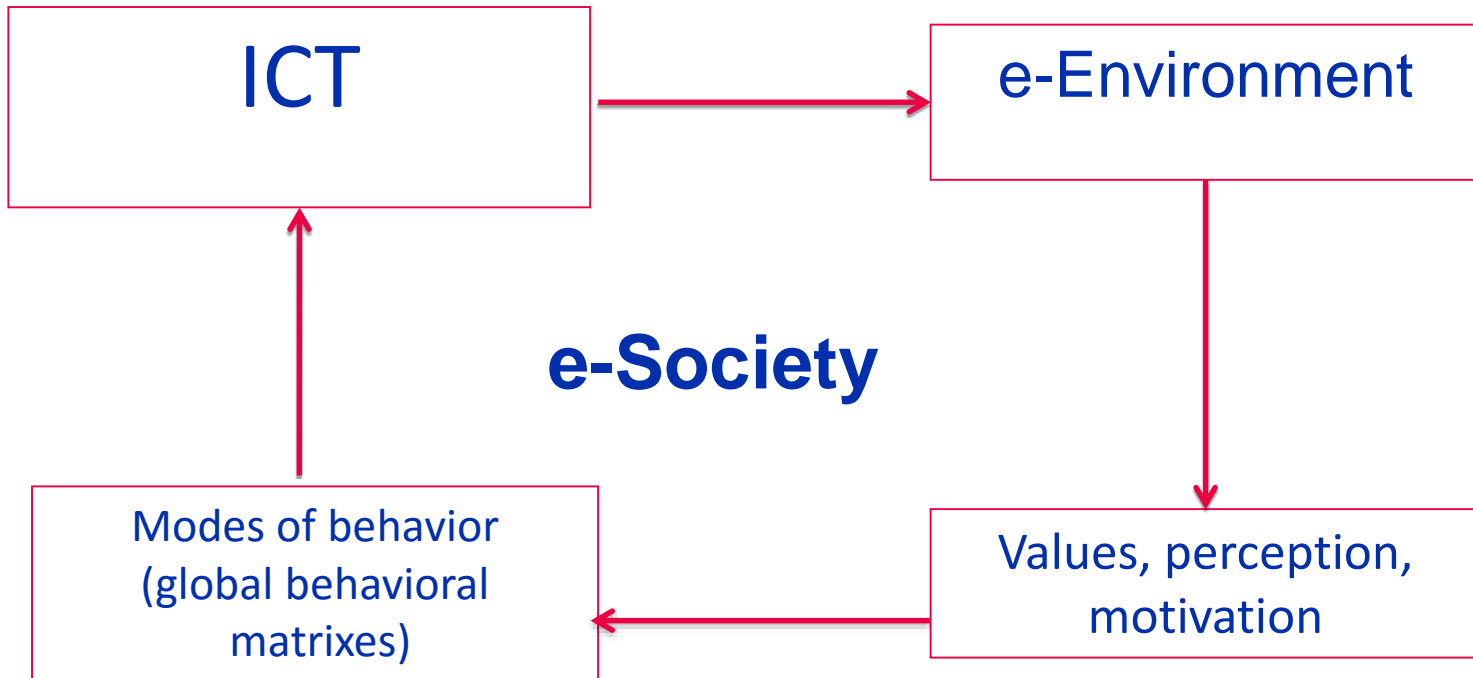
ICT instruments to understand e-Society: the case of the young researchers and programmers

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What is e-Society?



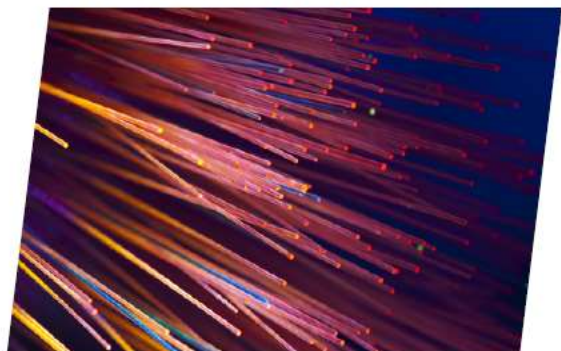
Quintessential e-Society people – World Class Programmers and ICT experts in ITMO University

REPUTATION

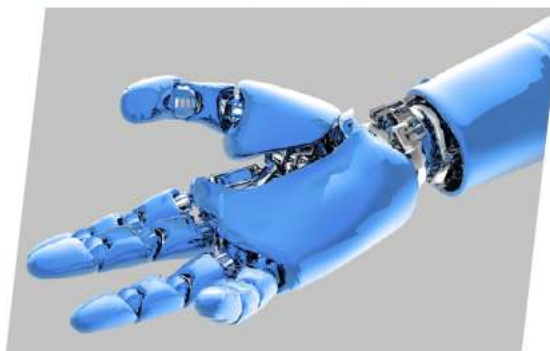


TOP RESEARCH FIELDS

PHOTONICS AND OPTICS



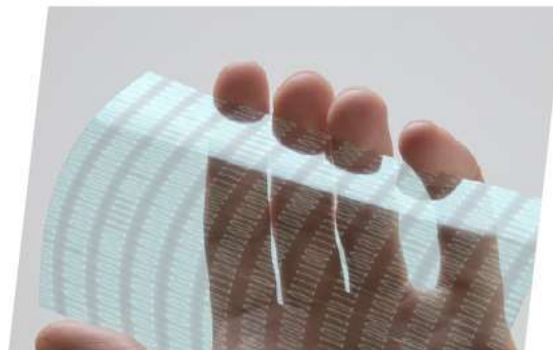
INTELLIGENT
TECHNOLOGY & ROBOTICS



LIFE SCIENCES
AND HEALTH



NATURAL SCIENCES



«SMART» MATERIALS,
NANOMATERIALS
AND NANOTECHNOLOGY



IT IN ECONOMICS,
SOCIAL SCIENCES AND ART



How to bring up the best programmers in the world?

- accurately identify the talents;
- teach creatively and keep motivation strong via inspiring tasks and challenges ;
- help students in career management.



More interesting and important - how to keep them motivates and make them stay at home an not move to Google or Facebook?

Give them more interesting challenge and listen to them

- ✓ Develop syllabuses using socio-grams
- ✓ Take into account opinion leaders in social networks
- ✓ Do talent search
- ✓ Link networks and official science
- ✓ Create network university

Crawling in Social and Research Networks . Big Data Analysis

✓ Social networks



✓ Blogs



✓ Event Aggregators

EventRegistry

✓ News Aggregators

The GDELT Project

GAZETA.SPb

РОСБАЛТ

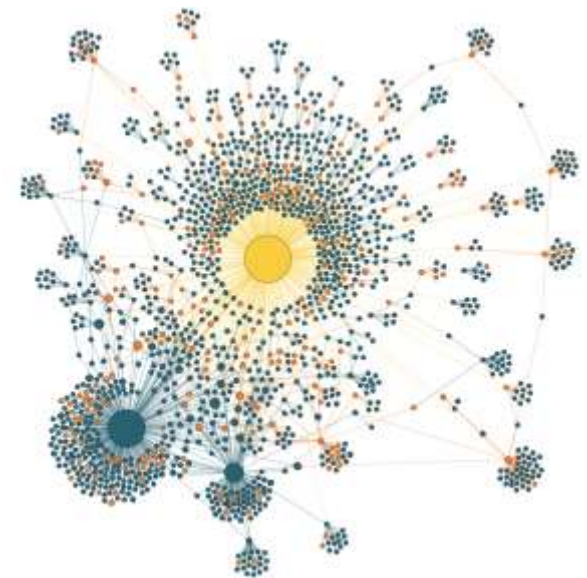
фонтанка

What instruments of Data Analysis we use at ITMO?

- ✓ Cloud computing platform - CLAVIRE
- ✓ Distributed data storage - DCStorage
- ✓ Frameworks of big data analysis (BigData):
 Spark, Spark Streaming, GraphX, MLlib
- ✓ Programs and scripts for specialized data analysis

Data analysis of social network communities allows to:

- Quantitatively measure various information processes in research communities
- Identify changes, trends and norms of development
- Understand processes in networks and their features:
 - Dissemination of Information
 - Change of network structure
 - Change of conditions and users behavior
 - Characteristics of published content



From National Research Styles to Global Network of Talents

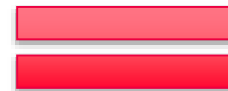
1. “Extremums”
2. “Olympiads”
3. Contests
4. Clubs
5. Trajectories
6. Masters
7. Challenge
8. Career
9. Environment
10. Networks



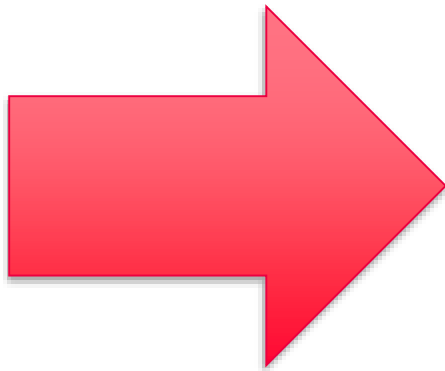
- Big data;
- Artificial Intelligence;
- Blockchain;
- Crypto-technologies and quantum communications;
- Neuro-technologies and technologies of human-machine interaction;
- Virtual and added reality;
- New portable energy sources;
- Synthetic biology and genomics;
- Additive manufacturing and new materials;
- Technologies of digital modeling.

New Markets of 2025 created by New Networks of Talents

1. Auto net,
2. Aero net,
3. Mari net,
4. Neuro net,
5. Health net,
6. Food net,
7. Energy net,
8. Finnet,
9. Safe net.



**e-Society
completed**





ITMO UNIVERSITY

Thank you for attention!

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