The pervasive nature of digitalization blurs the lines between the physical, biological and digital reality to solve fundamentally new tasks. It seems that at a short time the artificial intelligence system will rapidly penetrate into all spheres of human activity.

On the Roscongress Information and Analytical System on the chosen topic you will find:

<table>
<thead>
<tr>
<th>Analytics</th>
<th>Events</th>
<th>Speakers and experts</th>
<th>Related topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 analytical materials</td>
<td>39 sessions</td>
<td>287 speakers</td>
<td>57 topics</td>
</tr>
</tbody>
</table>

Latest publications in block «Analytics»

RESEARCH

The Rise of the AI-Powered Company in the Postcrisis World

An overview of a study conducted by the Boston Consulting Group’s BCG Henderson Institute on ‘The Rise of the AI-Powered Company in the Postcrisis World’ focuses on the impact of the crisis on the digital transition of companies.
RESEARCH

Surviving and Thriving in the 21st Century

The Commission for the Human Future here calls on the nations and peoples of the Earth to come together, as a matter of urgency, to prepare a plan for humanity to survive and thrive, far into the future.

Read more →

RESEARCH

Promising areas of robotics application in business

Read more →
National AI Strategies in Russia and the World

22 January 2020  19:00—20:00

Moderator
Oksana Tarasenko
Deputy Minister of Economic Development of the Russian Federation

KEY CONCLUSIONS

Development of artificial intelligence (AI) requires strategic approach

National strategies have been launched in 30 countries, while 10 others are working on it. Not everyone understands what exactly is to be done, but a strategic vision is necessary — Kay Firth-Butterfield, Head, Artificial Intelligence and Machine Learning, World Economic Forum.

In 2019, 32 countries have admitted the importance of AI for the national economy, social relations, and security, and adopted their strategies. These countries include the US, China, the Netherlands, France, Japan, the UAE. Russia has approved the national strategy last year. We weren’t the first, that’s why we had a chance to explore best practices to develop a strategy — Oksana Tarasenko, Deputy Minister of Economic Development of the Russian Federation.

AI being essential economic growth driver for coming years

At the time of the technological revolution, the AI has potential to be a driver of deep social and economic change. By 2030, the AI-related global economic activity will reach USD 13 trillion, which will provide additional 1.2% to GDP annually — Oksana Tarasenko, Deputy Minister of Economic Development of the Russian Federation.

Transition from weak AI to strong AI is promising

The main areas of AI development are human language understanding, computer vision, and self-driving cars — Zhang Zhuo Chang, Guangzhou Technology, People’s Republic of China.

AI must work as regular human mind being able to solve a wide range of problems, that’s what we call ‘strong AI’ — Kay Firth-
Butterfield, Head, Artificial Intelligence and Machine Learning, World Economic Forum..

Quality and availability of data being the basis for successful development of AI projects in machine learning

We do not have enough data, but it is important for us to thing how we can develop the economy using AI. Bad data means bad decisions. This also works for an AI-based economy -- Kay Firth-Butterfield, Head, Artificial Intelligence and Machine Learning, World Economic Forum..

We lack information. Microsoft has enormous datasets from their customers. They can use the data to develop AI. But we don’t have such companies in Korea – Cha Jung Hoon, Deputy Minister of Small and Medium-sized Enterprises and Start-ups of the Republic of Korea.

ST. PETERSBURG INTERNATIONAL ECONOMIC FORUM 2019

Data in Service of the State and Society

Moderator

Dmitry Peskov

Special Representative of the President of the Russian Federation on Digital and Technological Development; Director, Young Professionals Department, Agency for Strategic Initiatives to Promote New Projects (Agency for Strategic Initiatives)

KEY CONCLUSIONS

Big data and artificial intelligence open up new opportunities for government and business

Big data and sharing information within one system help reduce time and render services taken to a new quality level – Svetlana Chupsheva, Chief Executive Officer, Agency for Strategic Initiatives.

Using the artificial intelligence technologies give the following key effects: customer service offers are personalized; predictive analytics; and of course, improved efficiency of business processes and cost reduction – Dmitry Shushkin, Chief Executive Officer, ABBYY Russia.

Now we have <…> a solution that helps boost sales through automatization of mundane tasks and search for best sales patterns. It means that we analyze the whole transaction cycle – from the call to the closure – and find the best, the most optimal sales pattern – Artem Gladkih, Co-Founder, Chief Executive Officer, Teona.ai.

We started building mental models for human skills, which
Synopsis on the topic «Artificial Intelligence, AI» | 13.05.2020

Digitalization and big data are promising for government and business

This year, 36% – about a third – of our companies will invest over 100 million roubles each in digitalization, which is over USD 2 million each. This an average number, and it is clear that Sberbank will invest a lot, some will invest a bit. Nevertheless, it is a good trend. <…> 60% of managers believe that tackling structured data is really important — Dmitry Shushkin, Chief Executive Officer, ABBYY Russia.

We are the Far East's absolute leader in creating the ecosystem for innovation development and digital economy. <…> The IT park has commenced its successful operations. <…> It already has 47 companies and several dozens more have applied — Aysen Nikolaev, Head of Sakha Republic (Yakutia).

ST. PETERSBURG INTERNATIONAL ECONOMIC FORUM 2019

Is (Artificial) Intelligence Possible Without Mathematics?

8 June 2019  10:00–11:15

Moderator

Elena Bunina
General Director, Director of Organizational Development and HR Management, Yandex Russia

Moderator

Stanislav Smirnov
Fields Laureate; Professor, University of Geneva

KEY CONCLUSIONS
AI capabilities are reaching human level and being superior in some areas

If a human being can do something, we are absolutely sure that a machine will ultimately be able to do it too, especially if it is a very specific task — Alexander Kraynov, Head of Computer Vision and Artificial Intelligence Technologies, Yandex Group of Companies.

Artificial intelligence is now capable of speech recognition, image recognition, natural language processing, but all of it is based on the same general principles that we see in our brains. Not the details, but the general principles — Terrence Sejnowski, Professor, Laboratory Head of the Computational Neurobiology Laboratory, Salk Institute for Biological Studies; Distinguished Professor, The Biological Sciences at University of California San Diego.

Talking about computer vision, computers are now better at recognizing humans than humans themselves. Humans are unable to recognize a criminal in disguise, whereas software does it with no effort. <...> I think artificial intelligence will be similar to ours in many ways, but not identical, because of hardware limitations, and other limitations, but it will in many ways be superior to the human brain. Performance of niche-specific tasks shows that it is already true — Artem Yamanov, Senior Vice President, Business Development Director, Tinkoff Bank.

Science soon to become impossible without artificial intelligence

Science today, and mathematics in particular is, of course, still possible without AI. But it will become impossible in the years to come. It is the same as the arrival of computers transformed the work of scientists. Advances in AI will change the work of a scientist in the same manner. It is actually already partially happening — Dmitriy Vetrov, Research Professor, National Research University Higher School of Economics; Head of Machine Learning, Artificial Intelligence (AI) Center in Russia, Samsung.

Artificial intelligence enhances cognitive capabilities of humans

We should think of AI now as tools, tools that will enhance our cognitive capabilities. And not just scientists, but also doctors, engineers, lawyers. Help us do our job better — Terrence Sejnowski, Professor, Laboratory Head of the Computational Neurobiology Laboratory, Salk Institute for Biological Studies; Distinguished Professor, The Biological Sciences at University of California San Diego.
### Speakers and experts

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Company</th>
<th>Quotes</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olga Vasilyeva</td>
<td>Minister of Education of the Russian Federation (until 21.01.2020)</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>Herman Gref</td>
<td>Chief Executive Officer, Chairman of the Executive Board, Sberbank</td>
<td>28</td>
<td>22</td>
</tr>
<tr>
<td>Ilya Velder</td>
<td>Managing Director for Strategy, Innovation and Corporate Communications, Ak Bars Bank</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Demetrio Russo</td>
<td>Vice President for East Europe, Nokia Corporation</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Vadim Zhivulin</td>
<td>Deputy Minister of Economic Development of the Russian Federation</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>Elena Avakyan</td>
<td>Executive Director, Non-Profit Partnership for Advancement of Corporate Law</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>Bob Moritz</td>
<td>Global Chairman, PwC</td>
<td>7</td>
<td>4</td>
</tr>
</tbody>
</table>
Hiroshi Igarashi
Director, Dentsu Inc.

Vasily Osmakov
Deputy Minister of Industry and Trade of the Russian Federation

Kurt Krapfenbauer
Project Leader, Biomarker Transfer Department, Medical University of Vienna

Full list of speakers and experts →
The list of topics related to the selected topic

<table>
<thead>
<tr>
<th>Topics</th>
<th>Analytics</th>
<th>Events</th>
<th>Speakers and experts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digitalization</td>
<td>10</td>
<td>19</td>
<td>145</td>
</tr>
<tr>
<td>Big Data</td>
<td>4</td>
<td>10</td>
<td>100</td>
</tr>
<tr>
<td>Internet of Things, IoT</td>
<td>9</td>
<td>3</td>
<td>35</td>
</tr>
<tr>
<td>Applied Research</td>
<td>5</td>
<td>6</td>
<td>43</td>
</tr>
<tr>
<td>Robotics</td>
<td>10</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Innovation infrastructure</td>
<td>2</td>
<td>7</td>
<td>41</td>
</tr>
<tr>
<td>Blockchain</td>
<td>7</td>
<td>2</td>
<td>23</td>
</tr>
<tr>
<td>Driverless vehicles</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicine</td>
<td>3</td>
<td>3</td>
<td>26</td>
</tr>
<tr>
<td>IT industry</td>
<td>2</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>Cybersecurity</td>
<td>2</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>Labor Market</td>
<td>3</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Healthcare</td>
<td>2</td>
<td>2</td>
<td>30</td>
</tr>
<tr>
<td>Smart Cities</td>
<td>1</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>Media</td>
<td>1</td>
<td>3</td>
<td>24</td>
</tr>
</tbody>
</table>

Full list of the related topics →