



# IT Review



№ 3 май - июнь 2019 г.

Кафедра английского языка обеспечивает преподавание дисциплины «Английский язык» на факультете математики и технологий программирования. Каждый выпуск студенческой газеты подготавливается преподавателями, студентами и магистрантами факультета и представляет обзор событий и новостей в сфере информационных технологий

*The grass so green,  
the sun so bright.  
Life seems a dream,  
no worries in sight.*

*Tans and tank tops,  
laughter and bliss.  
Each moment passes  
without even a miss.*

*Friends and cookouts,  
memories and laughs.  
Good times to remember,  
but how long will it last?  
By Destinee*



## How powerful is a mind? Supercomputer takes 40 minutes to map 1 second of brain activity



The numbers may not sound too impressive, but this is an important breakthrough in simulation technology and has wide-reaching implications.

Using the K supercomputer, the fourth most powerful in world, scientists in Japan replicated a network of 1.73 billion nerve cells and 10.4 trillion synapses.

It took the K computer, with over 700,000 processor cores and 1.4 million GB of RAM, 40 minutes to model the data.

The most sophisticated of its kind, the project, a joint venture between Japanese research group RIKEN and German research group Forschungszentrum Jülich, was designed to gauge the limits of brain simulation technology.

RIKEN's success is the most significant development in the global brain race, wherein the world's major economies are racing to map the human brain and unlock its secrets.

The USA has the BRAIN initiative, the EU has The Human Brain Project, and China has Brainnetome.

But mapping and then simulating the human brain requires next-gen supercomputing, an order of computational power known as 'exascale'.

An exascale computer is one that can perform a quintillion floating point operations per second, thought to be same power as a human brain.

No computer as powerful as this yet exists, but as well as these major nations and international organizations, private companies are also developing exascale technology.

Intel, for instance, has said that it aims to have this future-computer operational by 2018.

"If petascale computers like the K computer are capable of representing one per cent of the network of a human brain today, then we know that simulating the whole brain at the level of the individual nerve cell and its synapses will be possible with exascale computers - hopefully available within the next decade," Markus Diesmann, one of the scientists involved, told the Daily Telegraph. Such technology would herald an age of sophisticated medical research, and intelligent defence weaponry, and even artificial intelligence.

The Most Powerful Supercomputers in the World:

National Super Computer Centre in Guangzhou (China)

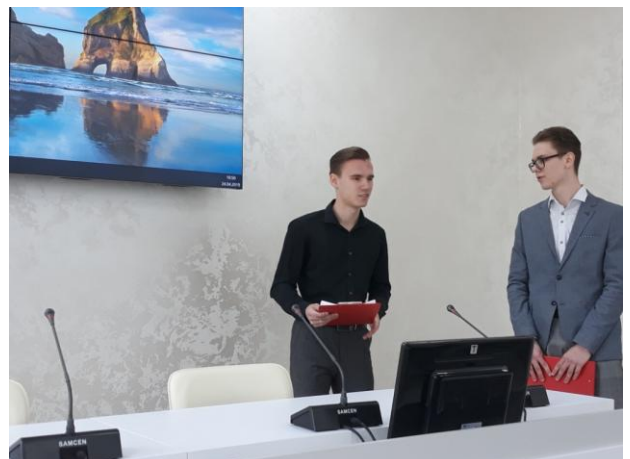
Oak Ridge National Laboratory (Tennessee, USA)

National Nuclear Security Association (Nevada, USA)

RIKEN Advanced Institute for Computational Science (Japan)

Argonne National Laboratory (Illinois, USA)

## Fruitful cooperation with IBA company



IT- project contest "Achievements in IT"



## When I Was Young - A Funny Computer Poem

A computer was something on TV  
From a science fiction show of note  
A window was something you hated to clean  
And ram was the cousin of a goat.

Meg was the name of my girlfriend  
And gig was a job for the nights  
Now they all mean different things  
And that really mega bytes.  
An application was for employment  
A program was a TV show  
A cursor used profanity  
A keyboard was a piano.

Memory was something that you lost with age  
A CD was a bank account  
And if you had a 3-inch Floppy  
You hoped nobody found out.

Compress was something you did to the garbage  
Not something you did to a file  
And if you unzipped anything in public  
You'd be in jail for a while.  
Log on was adding wood to the fire  
Hard drive was a long trip on the road  
A mouse pad was where a mouse lived  
And a backup happened to your commode.

Cut you did with a pocket knife  
Paste you did with glue  
A web was a spider's home  
And a virus was the flu.

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