



]:
измеримая “физическая величина” имеет объективную
вероятность “определенных значений”, а ее “наблюдатель”
может быть заменен автоматом.

Дж. фон-Неймана 1964

Семинар по специальности на английском языке

ЛЕКЦИЯ 9 : THE DEEPLY INTERTWINED PROMISE (SAVING FROM FALSE PROMISE OF TECHNOLOGY)

1 апреля 2021

We are being propelled into this new century with no plan, no control, no brakes....The only realistic alternative I see is : to limit development of the technologies that are too **dangerous**, by limiting our pursuit of certain kinds of knowledge.

—BILL JOY, "WHY THE FUTURE DOESN'T NEED US "

THE NEW LUDDITE CHALLENGE

- First let us postulate that the computer scientists succeed in developing intelligent machines that can do all things better than human beings can do them ????
- In that case presumably all work will be done by vast, highly organized systems of machines and no human effort will be necessary. ????
- Either of two cases might occur. The machines might be permitted to **make all of their own decisions** without human oversight, or else human control over the machines **might be retained.**

So are we in danger? The answer is clearly yes. How much danger, and what to do about it ?

.... genetics, nanotechnology, and robotics....

ALL technology empowers both our creative and destructive natures.

- We will be able to **redesign** all of the systems in our **bodies** and brains to be far more capable and durable.
- Most significant will be the merger of biological and artificial intelligence**and reaches** clear understanding what it **means to be human**

- **viruses** modified with genes can altered the immune-system response

We (humane civilization) have long history of catastrophes, both internally generated and externally imposed. This is true

- of both biological evolution (which faced **calamities** such as encounters with large asteroids and meteors) and human
- history (which has been punctuated by an ongoing series of major wars).

- How much knowledge we need to be out of danger?
 - Never shut down **simulation**.... remember, future will be Inevitability Transformed



ПОЛИТЕХ

«БЛЕСК И НИЦЕТА» СОВРЕМЕННЫХ КОМПЬЮТЕРНЫХ НАУК

Компьютерные науки:

«имитация» реальности с использованием **счетного** множества понятий - **ФОРМАЛЬНО-ЛОГИЧЕСКОЕ РАЦИОНАЛЬНО-ДЕДУКТИВНОЕ МОДЕЛИРОВАНИЕ**

«блеск»:

- цифровое **моделирование**
- «неограниченный» объем **памяти**
- логическая связанность, **виртуальность**

«ницета»:

- Отсутствие «целостности» и существование
 - «неизмеримых» объектов
 - алгоритмически неразрешимых задач
 - теоремы К. Геделя
- Конечная точность цифровых кодов
- Неустранимые «ошибки» программирования



Прямое восприятие **сущности**

