

TRIZ SUMMIT 2023



Активация Windows
Чтобы активировать Windows, перейдите в
раздел "Параметры".

TRIZ SUMMIT 2023



Pavel Amnuel

Technology Forecasting in Futurology and Science Fiction

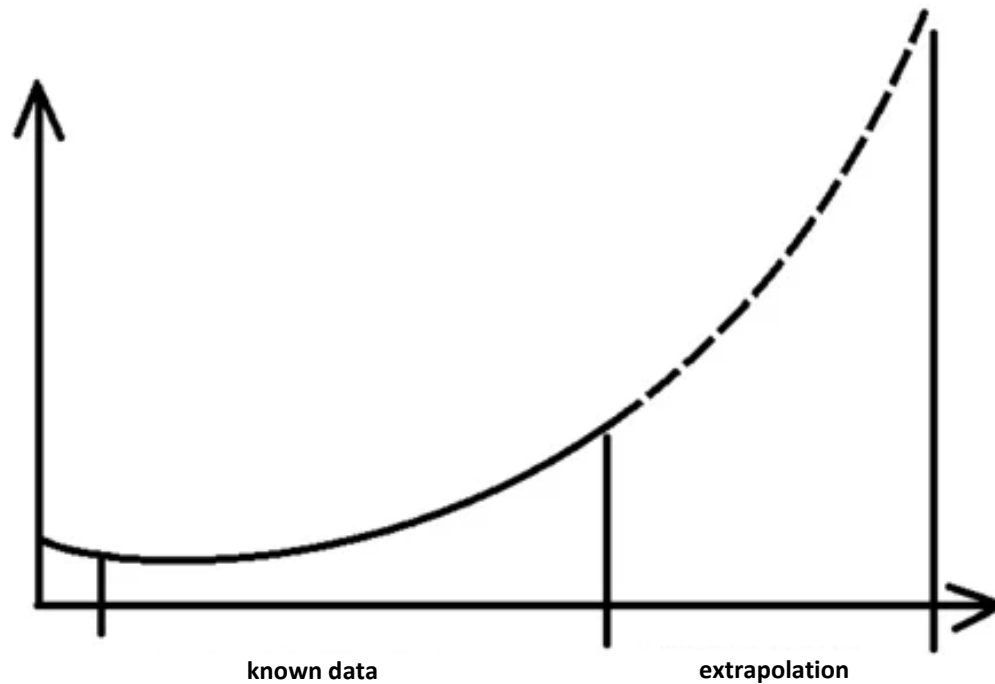


FUTUROLOGY



APPROACHES IN FUTUROLOGY

EXTRAPOLATION



APPROACHES IN FUTUROLOGY

EXTRAPOLATION

Technological singularity

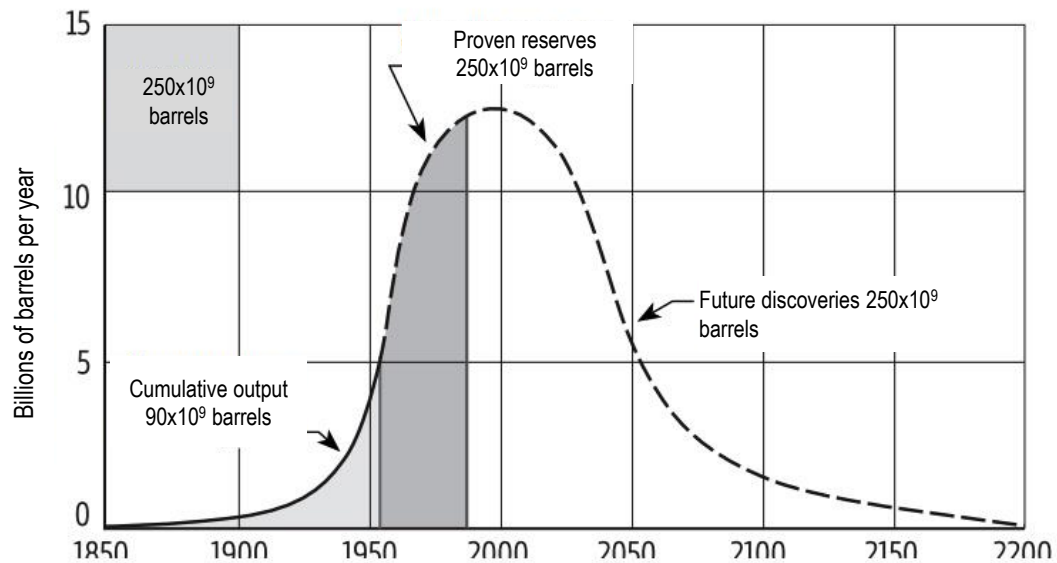


Ray Kurzweil

APPROACHES IN FUTUROLOGY

EXTRAPOLATION

Кривая Хабберта



APPROACHES IN FUTUROLOGY

EXTRAPOLATION

Mathematical modelling



APPROACHES IN FUTUROLOGY

EXTRAPOLATION

Mathematical modelling

Forecasting by analogy

APPROACHES IN FUTUROLOGY

EXTRAPOLATION

Mathematical modelling

Forecasting by analogy

Induction method

APPROACHES IN FUTUROLOGY

EXTRAPOLATION

Mathematical modelling

Forecasting by analogy

Induction method

Trends

APPROACHES IN FUTUROLOGY

EXTRAPOLATION

Occam's
razor



APPROACHES IN FUTUROLOGY

EXPERT SURVEY

APPROACHES IN FUTUROLOGY

EXPERT SURVEY

Delphi method

APPROACHES IN FUTUROLOGY

EXPERT SURVEY

Delphi method

Brainstorming

APPROACHES IN FUTUROLOGY

EXPERT SURVEY

Delphi method

Brainstorming

Sociological survey

APPROACHES IN FUTUROLOGY

EXPERT SURVEY

Scenario method



APPROACHES IN FUTUROLOGY

FORESIGHT



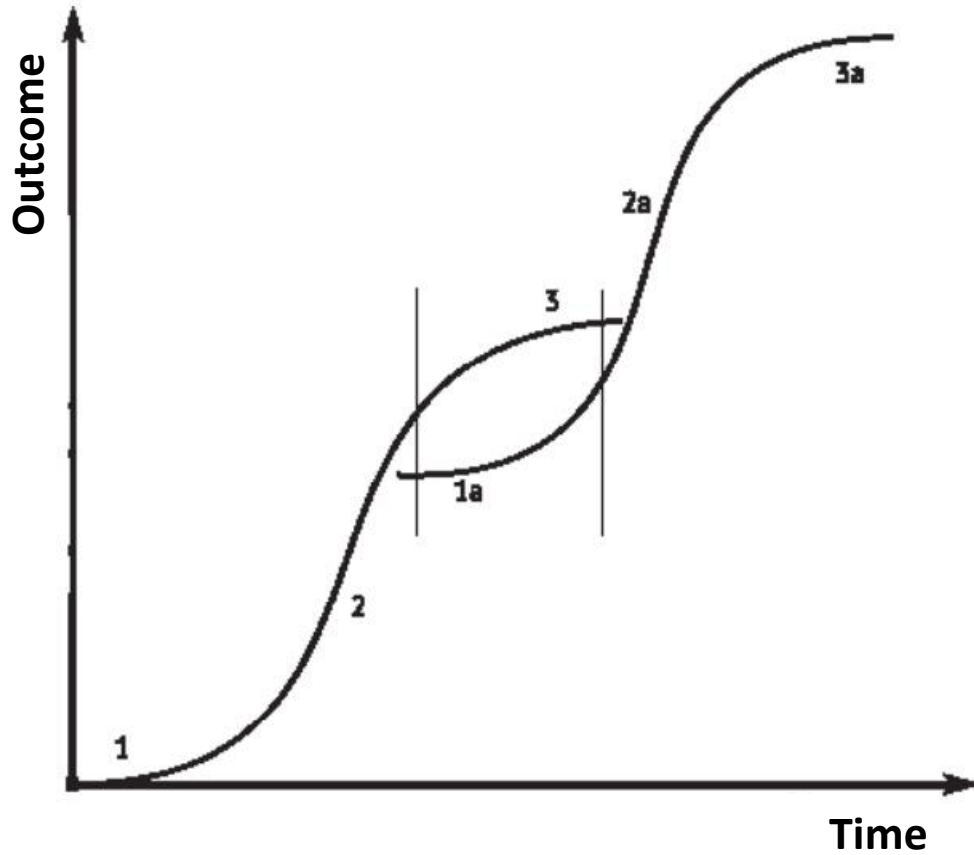
APPROACHES IN FUTUROLOGY

BLACK SWAN



Nassim Taleb

SCIENCE FICTION



**S-curve
New
QUALITY**

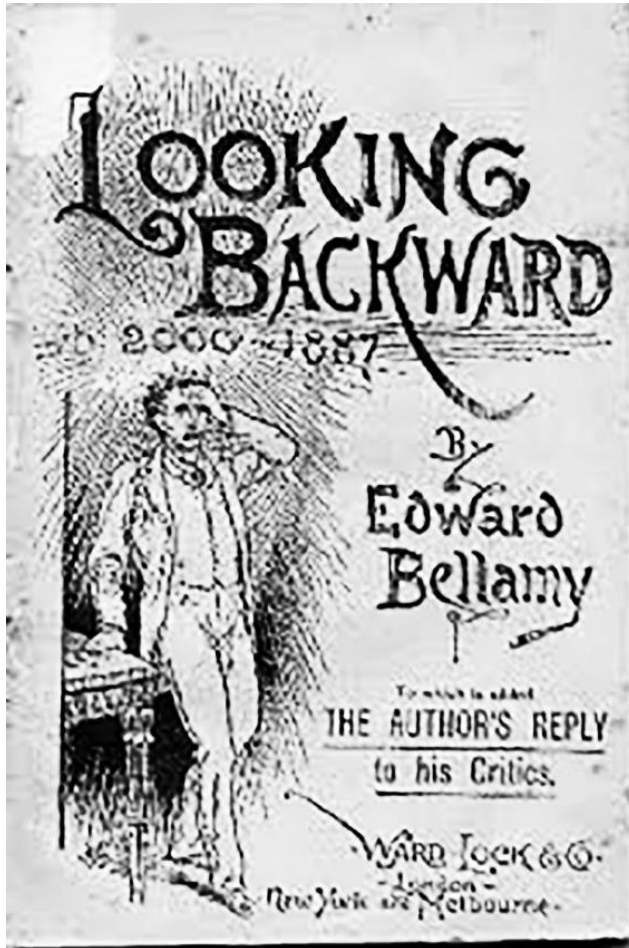
SCIENCE FICTION



1870. Twenty Thousand Leagues Under the Seas by Jules Verne

Protection against high
voltage. Electric
projectiles. Double hull.

SCIENCE FICTION



1887.
**Looking Backward
by Edward Bellamy.**

**Shopping mall
Credit cards**

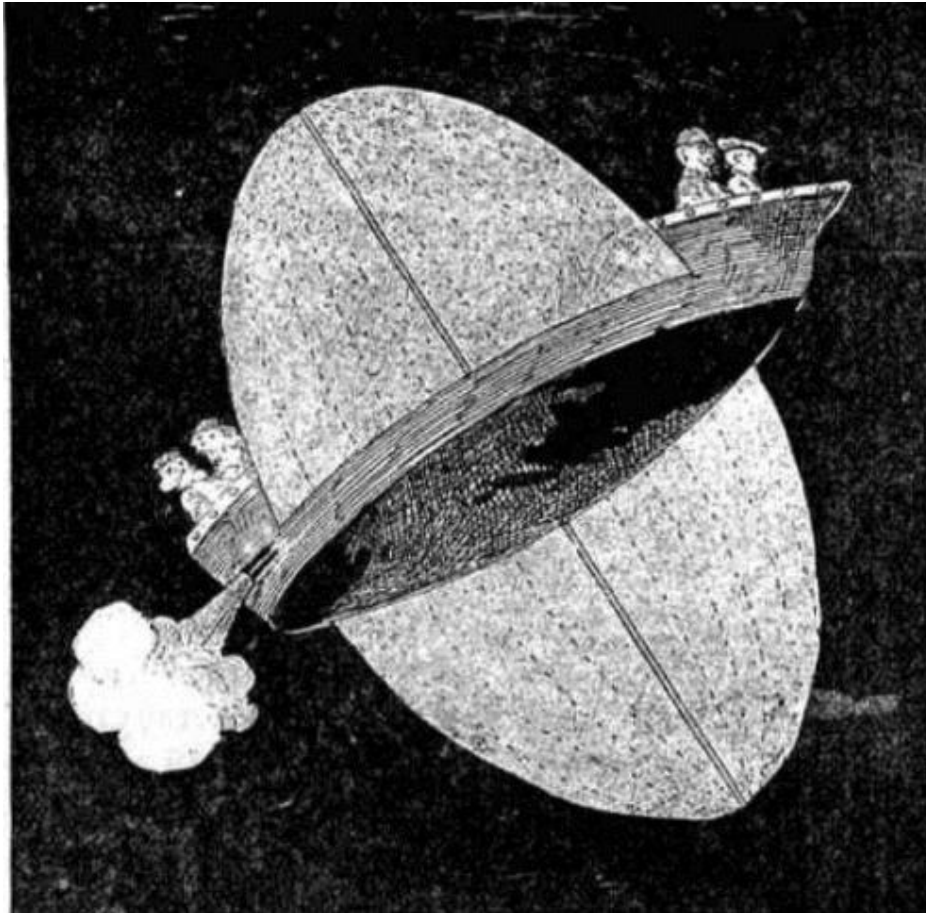
SCIENCE FICTION



1895. Propeller Island by Jules Verne.

Steering system in the form of two propellers.

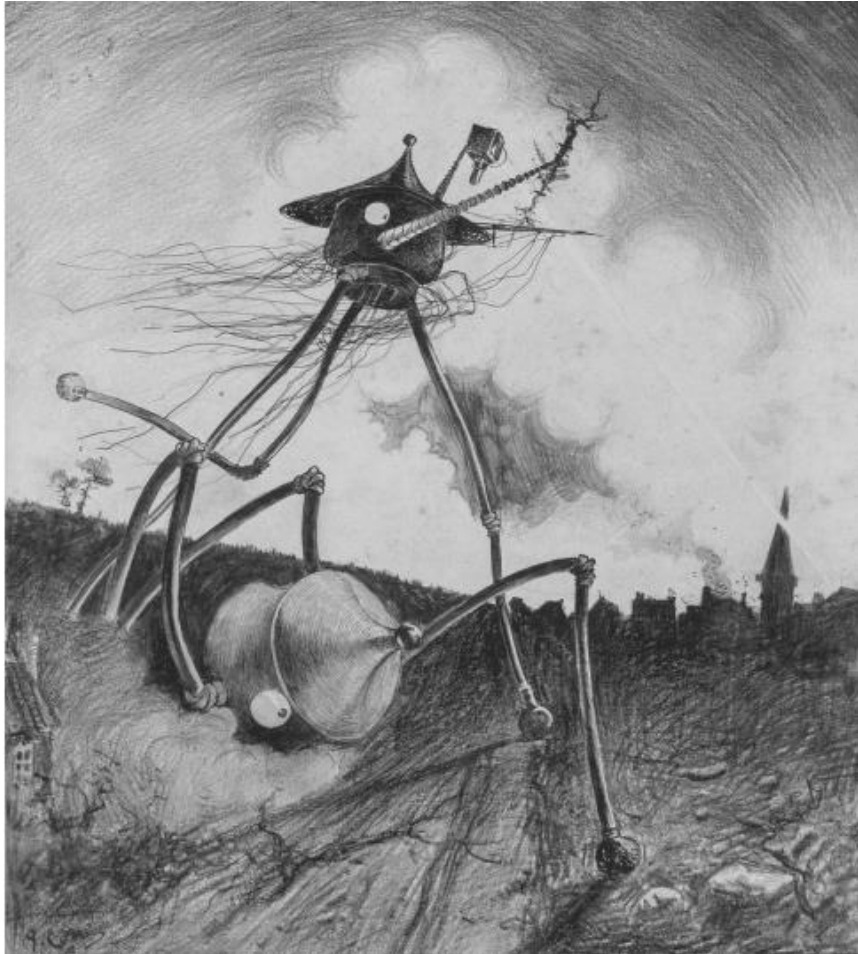
SCIENCE FICTION



**1896. The
Extraordinary
Adventures of a
Russian Scientist
Across the Solar
System by Georges
Le Faure, Henri De
Graffigny.**

**Light pressure as a
propelling force.**

SCIENCE FICTION



**1898.
War of the
Worlds by H.G.
Wells.
Biological warfare.**

SCIENCE FICTION



**1908. Red Star by
Alexander
Bogdanov
(Malinovsky).**

**Use of nuclear
energy.**

SCIENCE FICTION



1929. The Air Seller by Alexander Belyaev.

Ultra-dense air.

SCIENCE FICTION



**1960.
Star River Proving
Ground by Genrikh
Altov.**

Light acceleration.

SCIENCE FICTION



**1966.
The Donkey and the
Axiom by Genrikh
Altov.**

**Laser beam-accelerated
spacecraft.**

SCIENCE FICTION



**1968. Born for the Storm by Genrikh Altov.
Ship propelled by an artificial tsunami.**

SCIENCE FICTION



1968. To Be a Princess by Genrikh Altov.

A gaseous disc around the Sun. made from the matter taken out of the gas giants' atmospheres.

SCIENCE FICTION



1968. All the Laws of the Universe by Pavel Amnuel.

A law of nature that describes changing the laws of nature.

SCIENCE FICTION



1978. The Distant Song of Arcturus by Pavel Amnuel.

**The Solar system as a spacecraft.
A Dyson hemisphere with the Sun
in the focus point.**

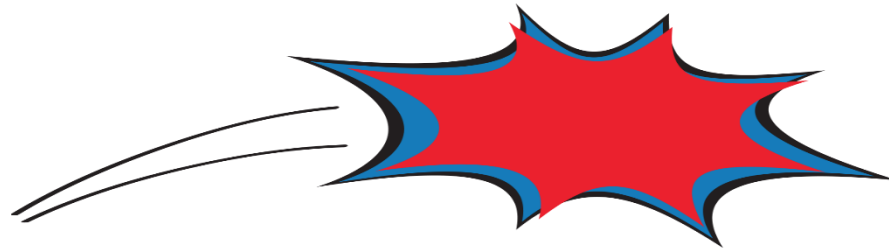
SCIENCE FICTION



**1999. Story of Your Life
by Ted Chan.**

**A fundamentally new
language devoid of the
concept of time and
causality.**

SCIENCE FICTION



Fantasy-2 scale **Criterion: novelty**

Level 1 (lowest): the idea hardly differs from the prototype.

Level 2: the idea significantly drifts from the prototype.

Level 3: the idea is fundamentally different from the prototype.

Level 4: the idea is original and without a prototype.

TRIZ SUMMIT
2023

Q&A
SESSION



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THANK YOU!



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