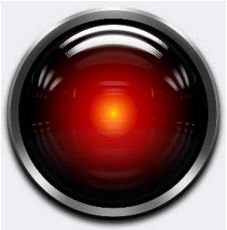
The rise of Artificial Intelligence (AI)



Prof. Damien ERNST

Université de Liège

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Mobile phone - Wikipedia, the free encyclopedia

https://en.wikipedia.org/wiki/**Mobile_phone**

A **mobile phone** is a telephone that can make and receive calls over a radio frequency carrier while the user is moving within a telephone service area. The radio ...

History of mobile phones - DynaTAC - List of best-selling mobile ... - Martin Cooper

Ascension Day might affect these hours

The Phone House Belle Ile

Shop for mobile phone on Google

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Samsung SAM **MOBILE PHONE** KIT - SM-A310F "Galaxy A3 2016" Black

275,88 € - Centralpoint.be

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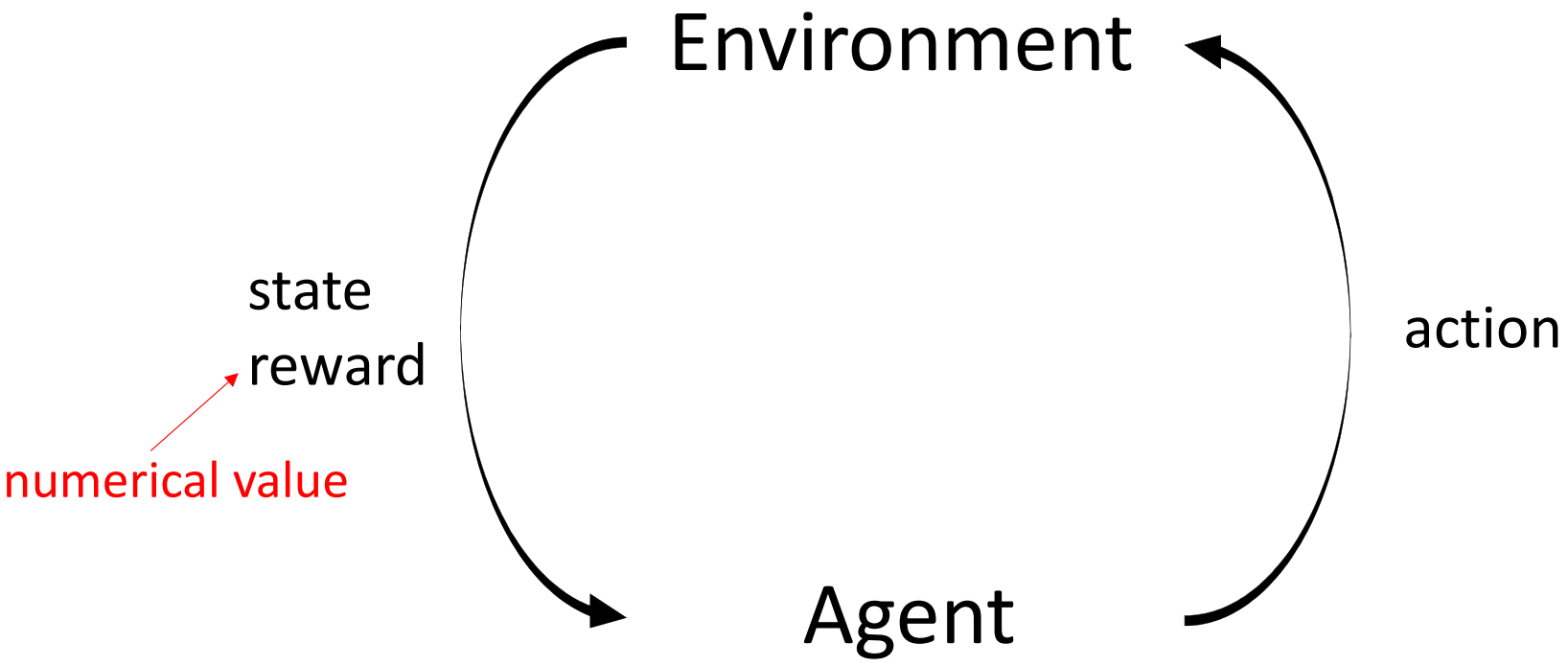
Reinforcement learning agent



Learning:

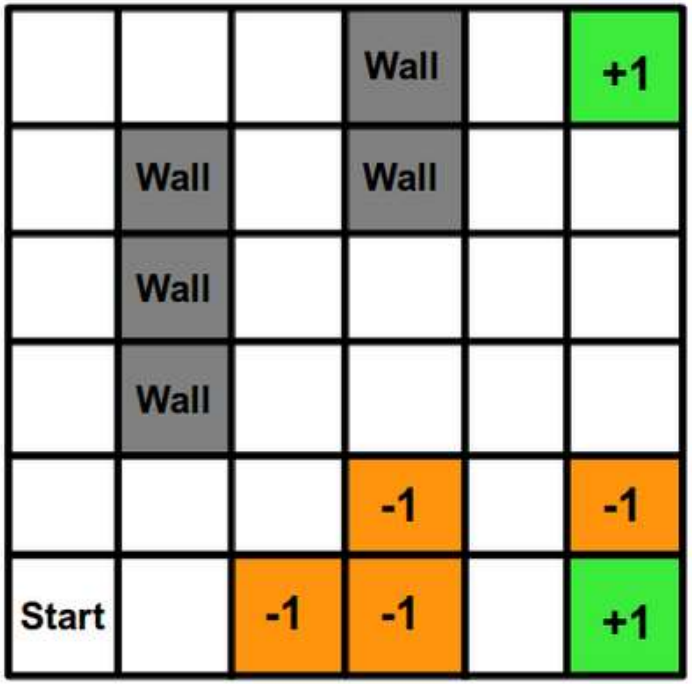
Input : x_t, u_t, r_t and x_{t+1}

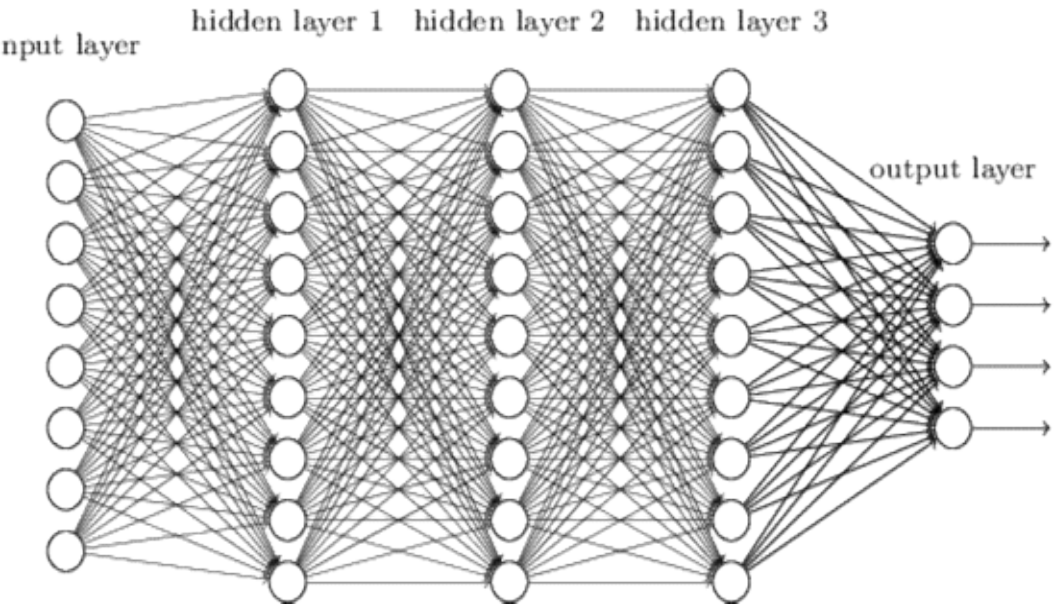
$$\delta \leftarrow (r_t + \gamma \max_{u \in U(x_{t+1})} Q(x_{t+1}, u)) - Q(x_t, u_t)$$

$$Q(x_t, u_t) \leftarrow Q(x_t, u_t) + \alpha\delta$$

Exploration/exploitation: Not always take the action that is believed to be optimal to allow exploration.

Generalization: Generalize the experience gained in some states to other states.

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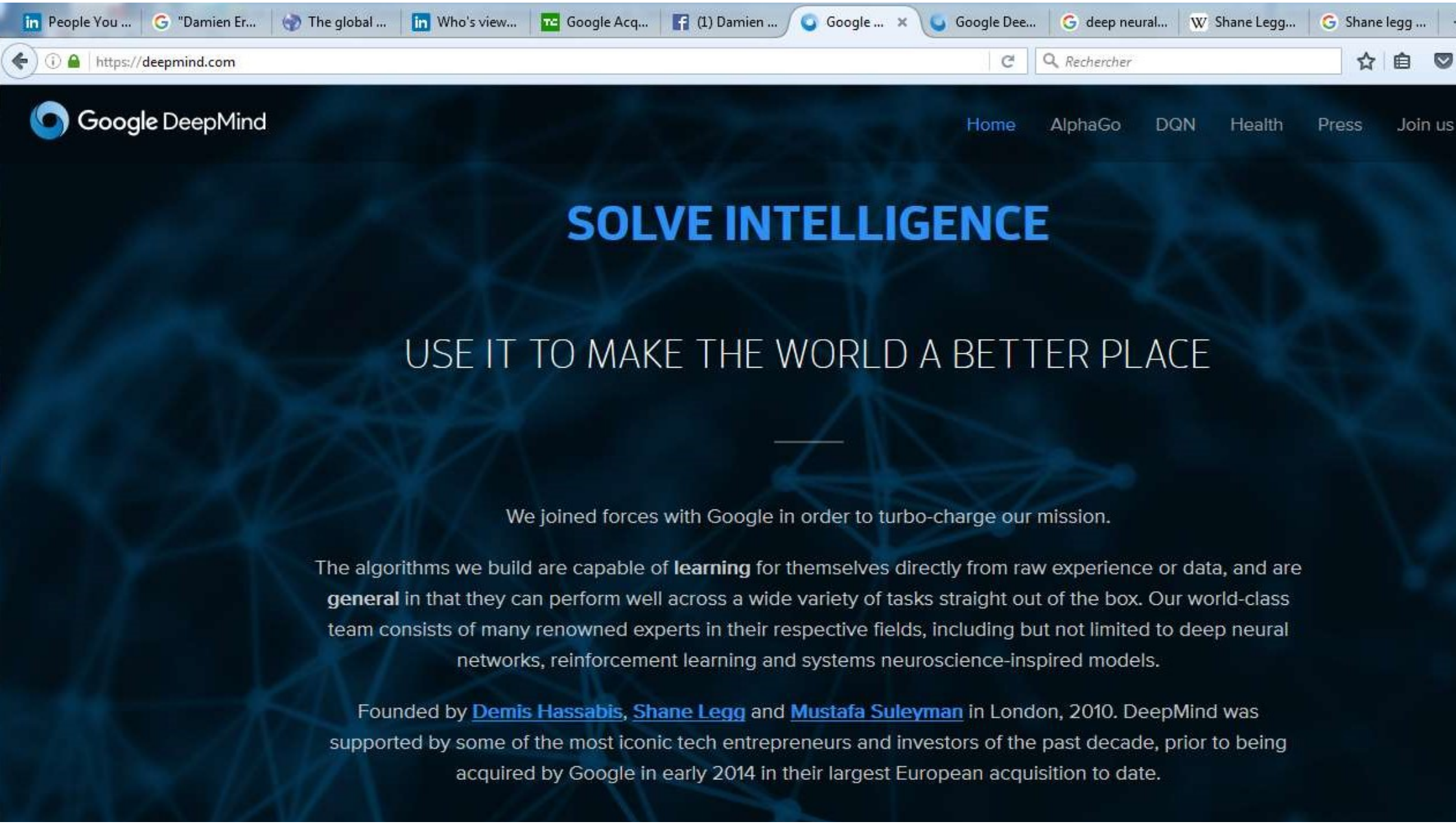
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Join us
SOLVE INTELLIGENCE
USE IT TO MAKE THE WORLD A BETTER PLACE
We joined forces with Google in order to turbo-charge our mission.
The algorithms we build are capable of learning for themselves directly from raw experience or data, and are general in that they can perform well across a wide variety of tasks straight out of the box. Our world-class team consists of many renowned experts in their respective fields, including but not limited to deep neural networks, reinforcement learning and systems neuroscience-inspired models.
Founded by Demis Hassabis, Shane Legg and Mustafa Suleyman in London, 2010. DeepMind was supported by some of the most iconic tech entrepreneurs and investors of the past decade, prior to being acquired by Google in early 2014 in their largest European acquisition to date.

Best quote of Demis Hassabis, CEO of Deepmind:

Solve Intelligence; Use That to Solve Everything Else

Posted on February 25, 2016 | Leave a comment

Source: The Guardian (UK), Feb 2016

Demis Hassabis ... is on a mission to "solve intelligence, and then use that to solve everything else".

This is artificial general intelligence (AGI), with the emphasis on "general". In his vision of the future, super-smart machines will work in tandem with human experts to potentially solve anything. "Cancer, climate change, energy, genomics, macroeconomics, financial systems, physics: many of the systems we would like

DeepMind AlphaGo vs Lee Sedol

Lee Sedol played an historic five game match against Google DeepMind's AlphaGo computer program in March 2016.

AlphaGo won the match, making it the first time a computer Go program had defeated a world class human player on even terms:

AlphaGo 4 – Lee Sedol 1

After defeating Fan Hui 2p with a 5–0 score, Google DeepMind chose to challenge Lee Sedol because of his record as the best Go player in the world over the last decade.

The games were even, with $1 million USD in prize money for the winner.

The match took place from March 9 to 15, 2016, in Seoul, Korea. Here's the match record:

Game 1: Mar 9 — AlphaGo wins by resignation — Video
Game 2: Mar 10 — AlphaGo wins by resignation — Video — Commentary
Game 3: Mar 12 — AlphaGo wins by resignation — Video
Game 4: Mar 13 — Lee Sedol wins by resignation! — Video — Commentary
Game 5: Mar 15. — AlphaGo wins by resignation — Video

21509/+229
19/20
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CHAT
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MENU
1/4 (25%)
You Annihilated the enemy!
Howling Banshee
Heroes | Savage - Ally - Team 2
- Infantry.
- Close combat specialist.
- Effective against Infantry and Heavy Infantry.
- Call of War upgrade (Soul Shrine) increases their hitpoints and damage.
Player Dropped
Left-Click to Select
Auto_Mail
Team 2
FOW

Technology

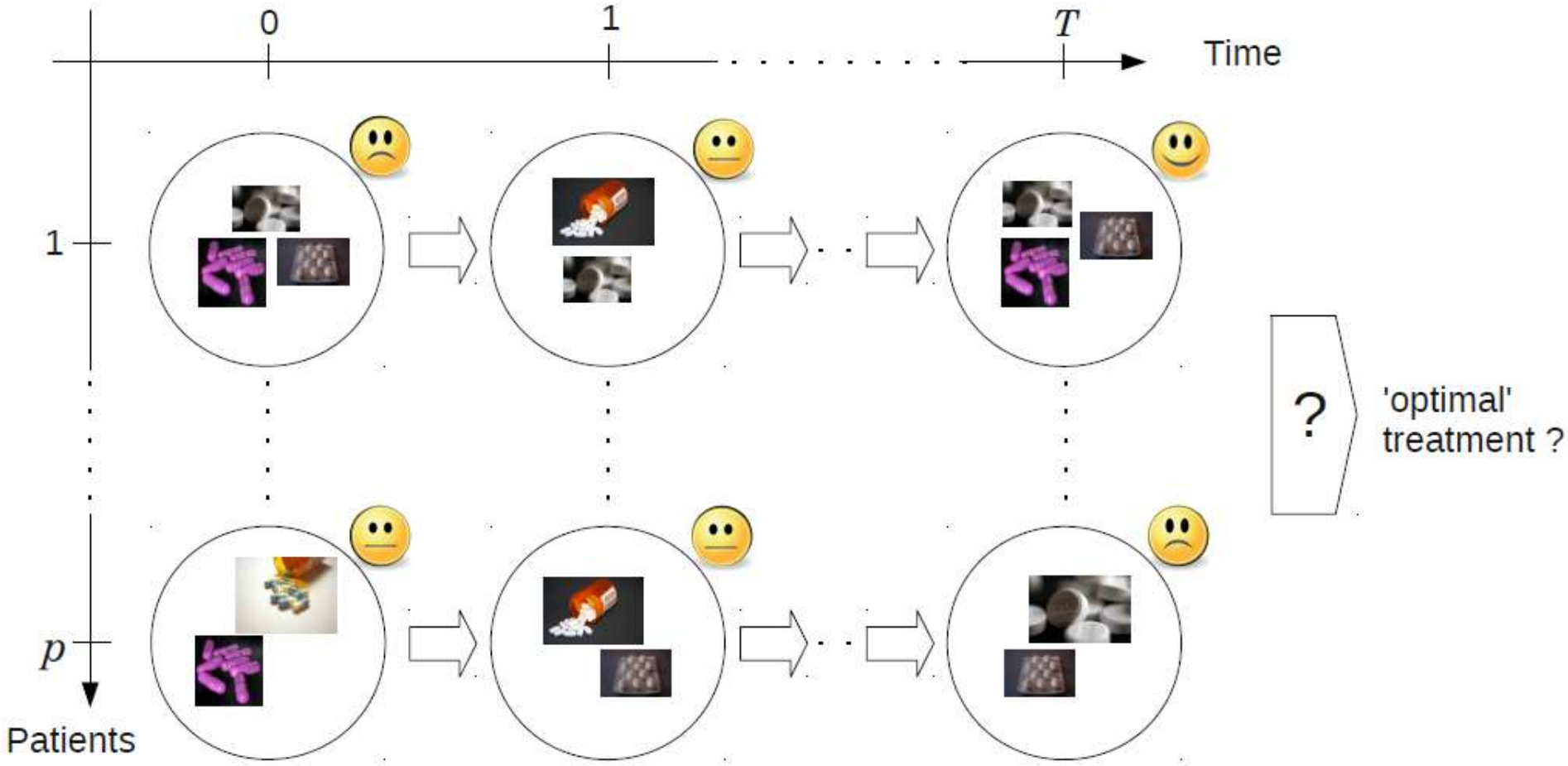
Google given access to London patient records for research

By Jane Wakefield
Technology reporter

3 May 2016 | Technology

The records go back over the past five years and include full names

Google has been given access to an estimated 1.6 million NHS patient records, it has been revealed.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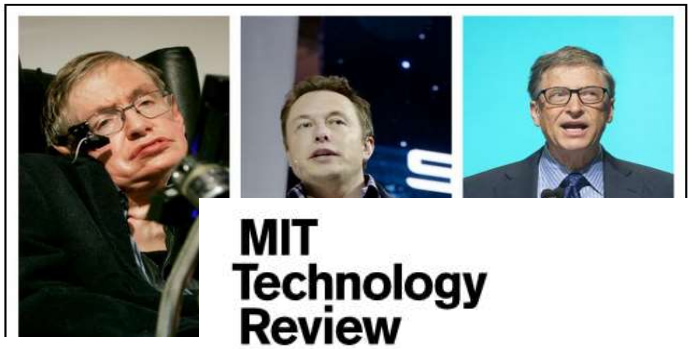
OPINION

Stephen Hawking, Elon Musk, and Bill Gates Warn About Artificial Intelligence

Google-owned Boston Dynamics released a video showing a 6′ tall 320-lb humanoid robot named Atlas running freely in the woods

By Michael Sainato • 08/19/15 12:30pm



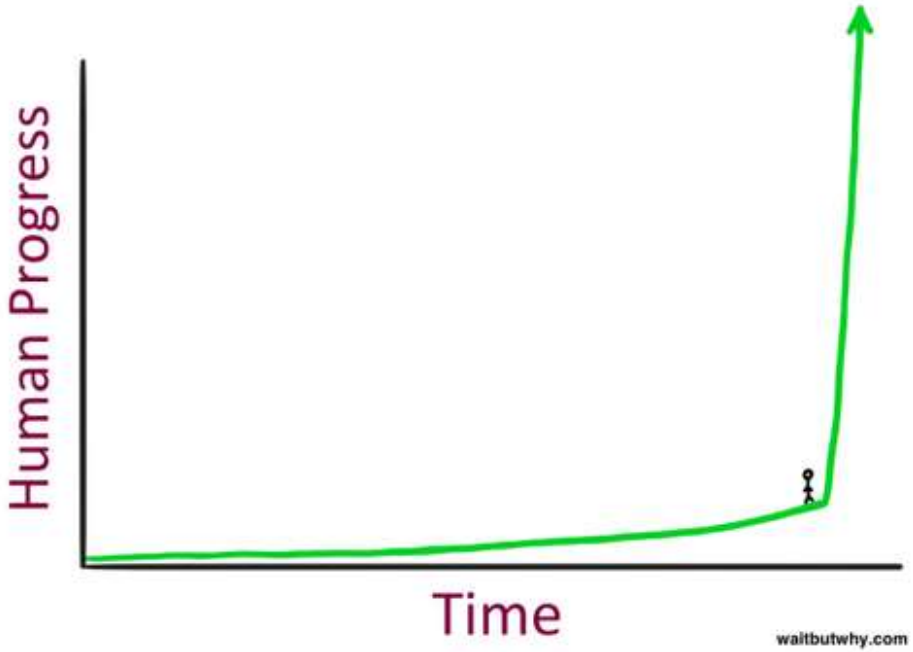
MIT Technology Review

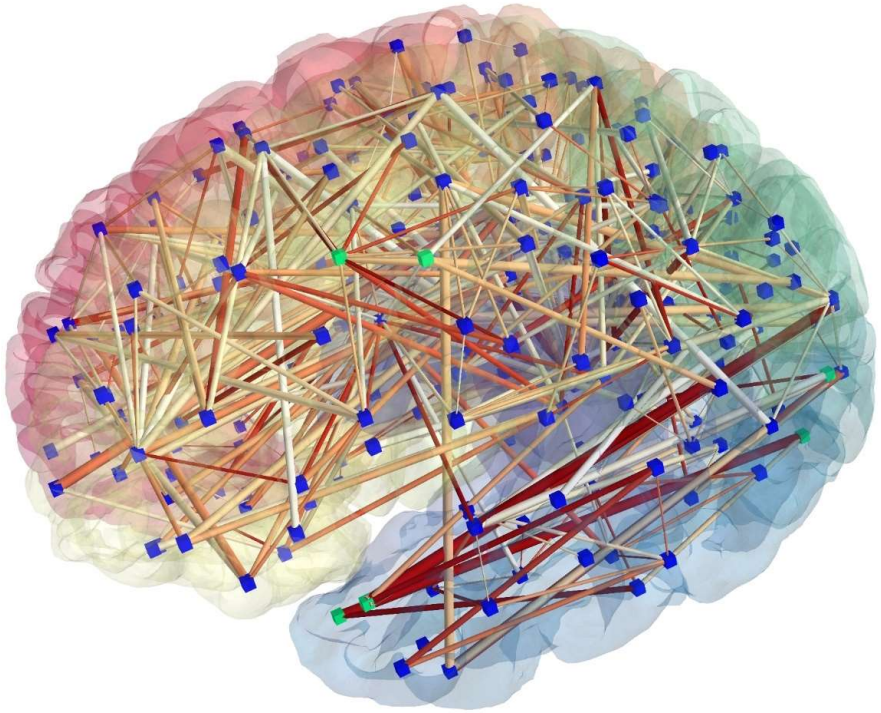
A View from **Paul G. Allen**

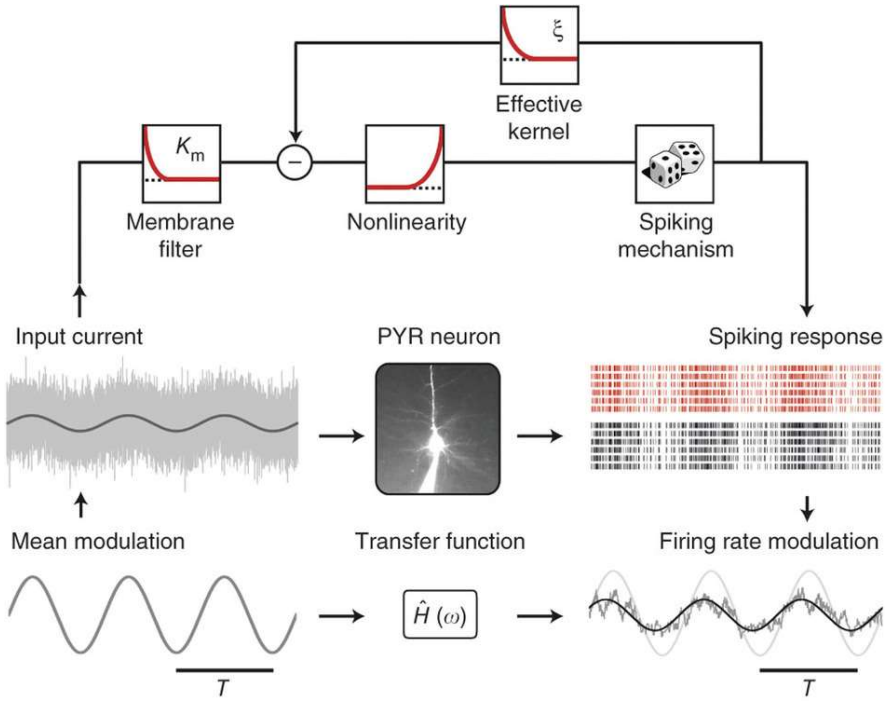
Paul Allen: The Singularity Isn't Near

The Singularity Summit approaches this weekend in New York. But the Microsoft cofounder and a colleague say the singularity itself is a long way off.

October 12, 2011



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Eight tech giants investing in artificial intelligence: Microsoft, Google, Facebook and more are investing in AI: What is their plan and who are other key players?

By Christina Mercer | Oct 13, 2016

Share

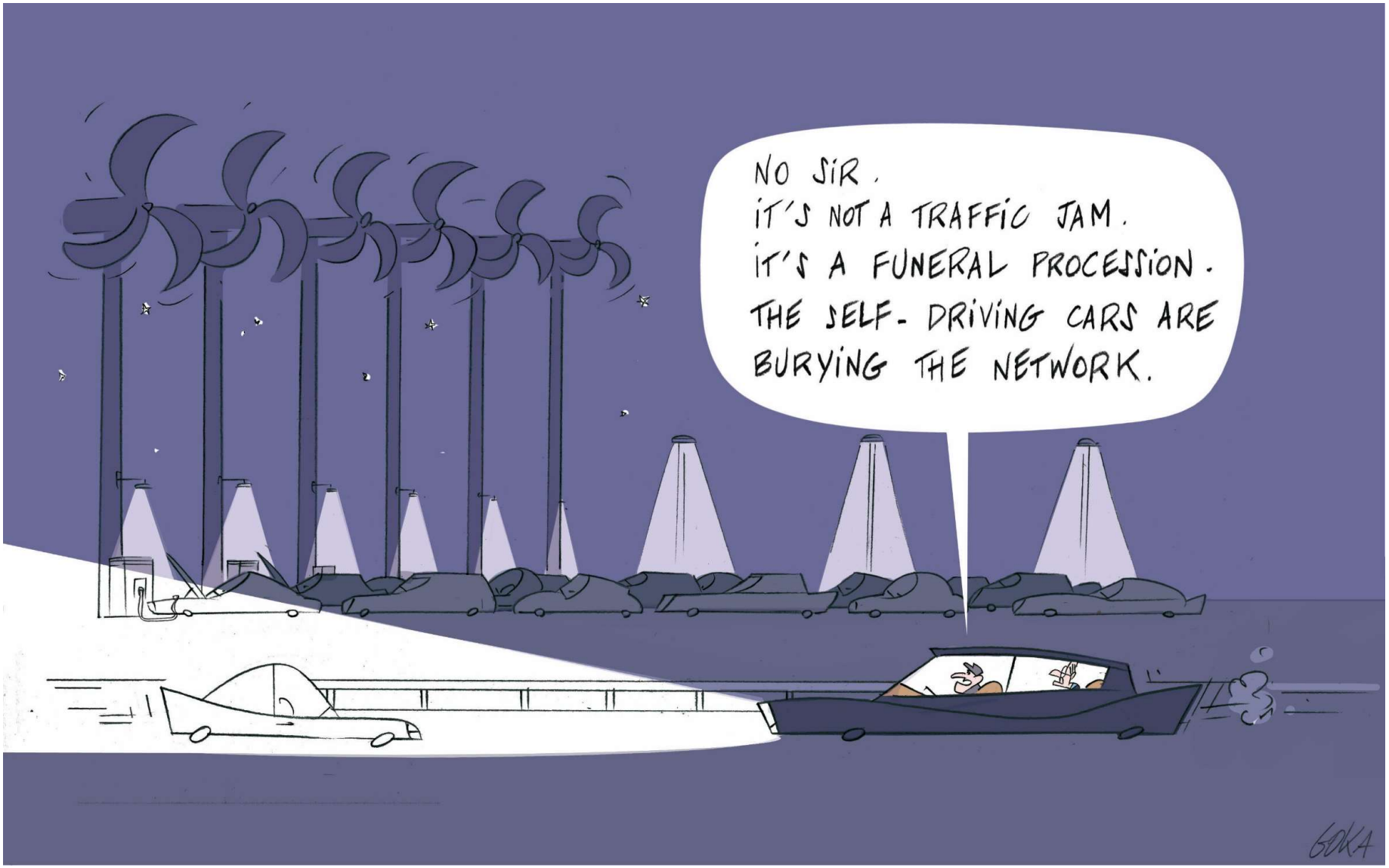
It's hard to pinpoint the exact path that AI will take, but with companies such as Google, Facebook and Microsoft making huge strides and Stephen Hawking and Elon Musk calling for AI to be regulated and monitored, it is definitely a hotly debated topic.

Here are eight tech giants that are investing in artificial intelligence...

Humanity and artificial intelligence

The good side: plenty of new fascinating AI-based product ahead

Impacts in all the sectors


NO SIR.
IT'S NOT A TRAFFIC JAM.
IT'S A FUNERAL PROCESSION.
THE SELF-DRIVING CARS ARE
BURYING THE NETWORK.
GOKA