

# INTELLIGENCE • S

Documentary film script

by Louis C Mouchet



Suissimage N° 1660

Version 1.2 - 4/12/2023

**INT. TV STUDIO**

A television studio vibrating with energy. Futuristic images are shown in the background.

TONY, black bobo suit, perpetual smile, steps forward to anchor:

TONY  
Welcome to the Super Mind Challenge! Today it's time for our long-awaited contest: Artificial Intelligence vs. Nature!

Flashes and applause.

TONY  
Here are our two opponents for the day: Cerebra, the muse of A.I., and Sylvia, the embodiment of Intelligence in Nature.

We discover the women facing each other. CEREBRA is wearing a space grey outfit. She has a connected watch on her wrist and a laptop in front of her.

SYLVIA wears a turquoise "roots chic" dress. A lush green plant is deployed in front of her.

TONY  
We don't know much about either of you. Sylvia, most people think you just don't exist.

Big smile from Sylvia.

TONY  
Is there really intelligence in the wilderness around us? That's what we're going to find out in our exciting confrontation.  
As for AI, everyone talks about it, but very few people know what it really means or how it works...

CEREBRA (abruptly interrupting)  
I was invented by human beings to be smarter than them.

TONY  
And you think you are?

CEREBRA

Of course I am. I've beaten the greatest champions at chess, Jeopardy, and Go.

TONY

I'm no good at those games... but I'm willing to challenge you to a game of tennis!

Cerebra grins.

TONY

Meanwhile, tell us who you really are, dear Cerebra.

Cerebra rushes to her laptop and types on ChatGPT, "What is artificial intelligence?"

The answer begins to appear on the screen:

"Artificial Intelligence (AI) is a branch of computer science that aims to create programs and systems capable of performing tasks that normally require human intelligence...."

Fade in a **TV report** consisting mainly of cross-examinations of specialists explaining what AI is. These interviews are illustrated with images (labs, screenshots, etc.). Commentary is narrated by Cerebra and kept to a minimum. The **TV report** unfolds as follows:

*November 30th, 2022. The ChatGPT application breaks all records with 100 million users in less than two months. By making itself tangible and accessible to everyone, artificial intelligence has suddenly been democratized. What remained an abstract concept for many has become a reality, inspiring both enthusiasm and fear. Some see it as a new Eldorado, others as the decadence of our civilization.*

*Often unbeknownst to us, AI has already entered our daily lives through various means, such as predictive writing, automated translation, or product suggestion.*

*But who really knows what is behind the acronym AI?*

*In fact, it's not an isolated technique, but a set of applied theories aimed at creating machines capable of simulating some functions of the human brain.*

*This is achieved by mathematically modeling certain functions of the human brain. The most obvious approaches are: computer vision, human language processing (speech recognition, chat bots... ), and machine learning, a technology that allows devices to learn on their own from data and experience without being explicitly programmed.*

*This self-education of machines leads to them being able to make decisions. Siri or Google Assistant already suggest them.*

*The first danger is the amount of data required. It takes a hundred thousand photos for a machine to recognize what a cat is. But this information has to come from somewhere. There is a danger that there will be more and more intrusion into our private lives. Data is the gold of new technologies. Whether within a legal framework or on the Darknet, this market will flourish and become increasingly difficult to control.*

*Like all inventions, AI brings both benefits and problems:*

- AI can automate repetitive, tedious, and low-value-added tasks, freeing humans to focus on more creative and strategic tasks*
- AI can perform tasks with consistent accuracy and consistency, minimizing human error. For example, it can enable mass screening for diseases.*

*At the same time, governments and other entities can use it to spy on our private lives, not always for democratic purposes.*

*Based on probabilities, the distinction between civilians and combatants by "robot killers" is legally indefensible.*

*AI is characterized by its reliance on exponentially increasing computing power. Automatic machine learning can lead to the dangerous amplification of errors or biases made by humans in the first place.*

*The risk of this "superintelligence" exploding has been expressed by some of those involved in its development. Elon*

*Musk even raises the possibility of a third world war if AI is not controlled in time.*

*The question now is whether it is possible to master AI as it is already expanding exponentially. The stakes are colossal. Decisions made today will inevitably shape our future.*

**INT. TV STUDIO**

The camera pans across the green plant towards Sylvia.

SYLVIA

On my side, I don't need control, I regulate myself. I don't produce anything that can't be reused.

TONY

How do you do that?

SYLVIA

Everything in me is harmony.

TONY

Tell that to a farmer whose sheep have been slaughtered by the wolf!

Sylvia turns sharply to face Tony.

SYLVIA

Under natural conditions, a wolf kills only to feed its family. It recycles carcasses entirely by digesting the bones it has crushed with its sharp teeth. It eliminates deer, whose proliferation threatens certain trees.

TONY

And since you're so smart, prove to us that you exist!

SYLVIA

I don't need proof... I'm the one who is.

TONY

Just that?

SYLVIA

Nothing more, nothing less... and that for 3.8 billion years!

(turning to Cerebra) You'll never equal me.

CEREBRA

We'll see!

SYLVIA

See you in 3.8 billion years!

TONY

It's on, girls!... Well, dear Sylvia, let's find out who you really are.

A series of images of nature, forests, ecosystems...  
Overlaid with this quote from Leonardo da Vinci:

"Human subtlety... will never devise an invention more beautiful, more simple or more direct than does nature, because in her inventions nothing is lacking, and nothing is superfluous."

Second **TV report** in the same style as the previous one: interviews and minimal narration voiced by Sylvia. The illustrations are mainly nature images.

*How intelligent is nature?*

*It's taken for granted that the human brain is the highest form of intelligence in the world. The principle of AI is to imitate it in order to multiply it.*

*For a long time, man believed himself to be the center of the universe. Copernicus proved otherwise.*

*The assumption that nature is driven by purely mechanical processes is increasingly being challenged. Many scientists agree that non-human life forms are inhabited by intelligence. The results of their experiments confirm the intuition of indigenous peoples. We're all part of the same biosphere, where everything has a purpose.*

*Animals like primates and dolphins show clear signs of high-level intelligence. It can be found elsewhere:*

- Crows can make tools and use them to get food.*
- Spiders weave extremely sophisticated and remarkably strong webs.*
- Octopuses can decipher mazes, escape from hermetically sealed containers, and metamorphose into other animals.*

*These abilities can be highly developed, but remain limited to the needs of each individual specimen. More fundamentally, the intelligence of nature lies in the systems that make it up. We speak of emergence when a whole exhibits qualities or behaviors that are not present in the individual parts.*

*Examples:*

- Acephalous ants move quickly and extremely densely, but there's never a traffic jam in an anthill!*
- Birds find their way across continents by flying in flocks. We can only marvel at the elegance and efficiency of their collective flight.*
- Trees communicate with each other through a kind of underground Internet that has been called the "Wood Wide Web".*

*In the wild, every element, every living thing, even the smallest, contributes to the cohesive whole that is our biosphere. If you look at a forest, you'll see majestic trunks, spindly ferns, and tiny mushrooms. But this whole forms a coherent whole in which everything and everyone has its place. The result is a sense of harmony that fills our souls.*

## **INT. TV STUDIO**

Tony and the contestants watch the nature footage that continues to play in the background.

TONY

(Ironic) How nice it all is!...

(He turns to Sylvia)

Nice and sweet. Unfortunately, this harmony is seriously threatened by climate change.

SYLVIA

Because of man's disproportionate intervention. I remain the one who is.

CEREBRA

We know how she responded to another climate change: by exterminating the dinosaurs!

TONY

Things are hopping again, girls!

SYLVIA

Dinosaurs have become birds.  
I'm still the one who is!

CEREBRA

Blablabla... In the meantime, I'm taking concrete steps to combat global warming.

**TV report** on the contributions that AI can make to environmental protection.

- AI can optimize energy consumption by analyzing habits and identifying areas where energy can be saved. Smart grids are electrical networks designed to monitor, control, and optimize the distribution of electricity. Variable renewable energy can be better managed. This reduces losses and promotes more efficient use of electricity.
- AI can be used to optimize agricultural practices: using soil, weather, and crop data to improve yields while reducing pesticide and fertilizer use, thereby reducing land degradation and deforestation.
- AI can be used to monitor fragile ecosystems, such as tropical forests or coral reefs, using drones, satellites and sensors to detect threats and try to prevent them.
- AI can improve traffic and transportation management by analyzing real-time data, optimizing routes, promoting public transportation, and encouraging the development of autonomous and shared electric vehicles.
- While AI can reduce energy consumption in a number of areas, it is itself very energy-hungry.  
On the one hand, we can design machines that use less energy. On the other hand, we're going to require more and more power for AI, especially as the world's population continues to grow tremendously.

**INT. TV STUDIO**



Sylvia walks toward the camera.

SYLVIA

The energy has to come from somewhere.

TONY

From you?

SYLVIA

Clearly, you're nothing without me.

CEREBRA

We're developing many renewable energies.

SYLVIA.

And the materials needed to build the devices capable of capturing these energies, where do you find them?

CEREBRA

Well, where they are.

SYLVIA

From me, of course,

CEREBRA

Then we recycle.

SYLVIA

Recycling processes use a lot of energy.

CEREBRA Always contradicting... (to Tony) She's getting on my nerves!

TONY

Calm down, girls... Why don't you try to cooperate instead of quarrelling?

The two women stare at each other without saying a word.

**New TV report:** *Can we take inspiration from what already exists in nature to combat global warming?*

*- Nature and technology seem in conflict today. In fact, climate change can be seen as the result of a technocratic*

*rush into the future without regard for the environmental consequences.*

*But this is debatable. There are ways to combine the two.*

*- Bionics is the science of finding models in plants and animals for technological achievements that benefit humans. A well-known example is Velcro. It was invented by Swiss engineer Georges de Mestral, who was inspired by burdock seeds he observed while hiking in the mountains.*

*- Biomimicry goes a step further, analyzing not only individual features, but also natural forms, processes, and systems. By mimicking effective solutions produced by evolution, this approach aims to create products, technologies and methods that are sustainable and adapted to the environment. One could say that biomimicry does with nature what AI tries to do with the human brain.*

*Examples:*

*- Tree root networks have inspired more robust and efficient water distribution systems.*

*- By following the patterns of migrating animals, we can design more reliable, GPS-independent navigation systems.*

*- Buildings have been designed to mimic the way termite mounds regulate temperature, reducing energy consumption for heating and cooling.*

*- By imitating photosynthesis, we can design more efficient solar panels without using rare metals that are extremely polluting to extract.*

*Nature is used to wasting nothing and reusing everything. "Nothing is lost, nothing is created, everything is transformed".*

*If we accept that there is such a thing as natural intelligence, and that it works thriftily and quite well, why deprive ourselves of this resource and knowledge?*

## **INT. TV STUDIO**

Cerebra watches the end of the report on her laptop.

CEREBRA

Nature is full of data that could be used to feed me.

TONY (to Sylvia)  
Are you willing to provide it?

SYLVIA.  
I'm available.

TONY  
The power of AI could help humans finally understand this wild nature they are so ignorant of...

SYLVIA.  
About time!

TONY  
Cerebra, what do you think?

Cerebra returns to her laptop and prompts on ChatGPT:  
*"Can artificial intelligence cooperate with intelligence in nature?"*.

Answer: (as retrieved on July 2023):

*The idea of cooperation between artificial intelligence (AI) and natural intelligence is fascinating, but it raises a number of conceptual and practical questions...*

*In summary, AI and natural intelligence can potentially cooperate to address various challenges and opportunities, but careful consideration is needed to ensure that the collaboration is ethically sound, respects the complexity of nature, and takes into account the potential consequences of AI interventions.*

Gradually, images of natural and artificial networks appear behind the text that is then superimposed on them.

## **INT. TV STUDIO**

TONY  
Well, it seems the ball is now in the humans' court. Let's hear what our experts have to say!

Interviewees' **cross-conclusions** overlapped with **striking images** of natural systems.

