

Artificial Intelligence

Where to start?

Definition

AI research is defined as the study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chance of success at some goal. Colloquially, the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving".

Source : *Wikipedia*

Philosophy

Three questions :

- Can a machine be smart and act intelligently?
- Artificial intelligence and human intelligence can be compared?
- Can a machine have a mind, a consciousness?

...which exist since 2000 years...

Source : Wikipedia

History

An innovative but ancient topic:

- The idea linked with “mechanizing human thought” is born during the 1st century AD and came from Chinese, Indians and Greek philosophers.
- The oldest automates are statues from Ancient Egypt and Ancient Greece.
- During the Middle Ages, we used alchemical techniques to influence minds
- 1950 : Alan Turing : “does a machine have the ability to think?”
- 1956 : Artificial intelligence is born as an academic discipline.

Source : Wikipedia

Theories and techniques

- It is a cognitive **science**
 - *Cognitive science is the interdisciplinary, scientific study of the mind and its processes. It examines the nature, the tasks, and the functions of cognition. Cognitive scientists study intelligence and behavior, with a focus on how nervous systems represent, process, and transform information. Mental faculties of concern to cognitive scientists include language, perception, memory, attention, reasoning, and emotion; to understand these faculties, cognitive scientists borrow from fields such as linguistics, psychology, artificial intelligence, philosophy, neuroscience, and anthropology.*
- AI uses neural networks, mathematical logic and information technologies.

Source : *Wikipedia*

We talk about a **science** which uses information technologies as tools.

Fields of application

- Automatic translation
- Automatic language processing
- Handwriting recognition
- Image and shape recognition
- Artificial emotion

Source : Wikipedia

Domains of application

An extended playground:

- Bank and finance
- Medecine
- Insurances
- Our phones
- More relevant examples below :
 - <https://www.kindrobot.org/note/latest-notes/>

A.I is everyone's business

At Kindrobot, we think AI is a major topic. Everybody is concerned and relevant to talk about it.

This presentation is a first step. Our approach is built on sharing knowledge, clarity and transparency.

More information about this approach below:

<https://www.kindrobot.org/news/our-objectives/>

Your questions are welcome

- Our website
 - <https://www.kindrobot.org/>
- Our twitter
 - https://www.twitter.com/kindrobot_org
- By email : julien@kindrobot.org