

ARTIFICIAL INTELLIGENCE

Fundamentals of artificial intelligence

ARTIFICIAL INTELLIGENCE

- It is the science of creating by engineering intelligent machines, and especially intelligent software for computer use.

"Artificial Intelligence is the study of mental faculties through the use of computational models"
(Charniak and McDermott)

Difference between Operating Systems and Intelligent Systems

- * The Operational System takes care of some business document processes in an integrated and structured, while an intelligent system is a type of software that, through a user or another program, performs independent tasks which require a degree of intelligence and learning.

Applications of AI

- * **ROBOTS:** robot dogs, dolls, robots-mates, robots to care for children, tasters, for walking disabled, etc.. Overall replace living in social interaction affect.

VIDEO GAMES drugs, sex, violence, sports, war. They serve to train attention and can create psychological dependence.

Applications of AI

- * The elimination of silence and replace the inner voice for electronic connection, as people walk today connected to anything but themselves, such as telephone-mobile devices, IPED, BlackBerry ...

HEALTH: Its use is important for high-risk operations, eg to optimizeradiation treatment so as to destroy the tumor but not healthy tissue.

The Turing Test

- * Alan Turing can be considered the father of Artificial Intelligence.
- * Being the author of the concept of computer, predicted that the machine could acquire a capacity comparable to human intelligence. In 1950 proposed the so-called Turing Test, also known as role-play to examine the intelligence of a machine.

The Turing Test

- * The test is that a person (judge) has to have a conversation (through an interface and a keyboard) with the AI system (a machine) and a human. If the judge is unable to discover which of the two participants is the computer, we can consider that the system has an intelligence comparable to humans. Still no machine can pass this exam on experience with scientific method.

Diagram of the Turing test

