A.I and Social robots

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Empowering Human Capacity

– We have evolved and progressed.
– We have invented and discovered.
– We are empowered...and soon overwhelmed...
A.I and Social robots
George Boole (1815-1864) introduced his algebra laws for the binary numbers. It will be the basis of electronics 100 hundred years later.

Around 1940, research in Neurology discovered that the brain was an electrical network of neurons that fired in all or nothing pulses or signals (0/1).
Can a machine think? Turing Test (1950)

Put a machine and a human in a room and send in written questions. If we cannot tell which answers are from the machine or the human, the machine is thinking...
What is A.I today?

- **Imbedded in several technologies** as speech synthesis and recognition, machine learning, recognition of images, gestures and actions, simulations of behaviours, deep learnings, etc

- Some futurists think the **SINGULARITY** — the point at which artificial intelligence can match, and then overtake, human intelligence — might happen in just 16 years, while others say by 2100. Either way, it's NOT SO FAR...
Robots can replace Slavery

GLOBAL SLAVERY FACTS

Slavery generates $150 billion for traffickers each year

- 78% of slavery victims today are in labor slavery
- 22% of slavery victims today are in sex slavery
- 26% of slaves today are children under age 18

There are tens of millions of people in slavery today. Researchers estimate 21 million are enslaved worldwide.
Humans can be replaced in these painful tasks by Robots
What about Human loneliness...

- Elderly often feel lonely and are alone
- The situation is worsened over time…
WHO: “The number of people aged 65 or older is projected to grow from an estimated 524 million in 2010 to nearly 1.5 billion in 2050, with most of the increase in developing countries.” In addition, by 2050, the number of people 65 years or older is expected to significantly outnumber children younger than 5 years of age.
The Growth of Numbers of People with Dementia in High-income Countries and Low- and Middle-income Countries: 2010-2050

Social robots can help when nobody is there...
Nadine, our companion of the future?