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Artificial Intelligence (AI) Workshop Content

Artificial Intelligence

Artificial Intelligence is the development of intelligent machines and software, similar to human intelligence. Can machines apply problem solving or logic? Can they recognise natural human interaction across a variety of languages and local accents? Can robots and machines understand emotions and respond appropriately?

The development of the Artificial Intelligence industry is highly technical and often associated with futuristic developments within the media. Products and machines have been developed of the years, since the boom of the "Digital Age", that progressively tell us how much more we are learning about machine intelligence and ways to implement more advanced features and functionalities.

ASIMO

"ASIMO is one of the most famous examples of Artificial Intelligence. It is also a humanoid robot developed by Honda, the Japanese automobile and motorcycle manufacturer. ASIMO stands for "Advanced Step in Innovative Mobility". It is designed to interact with the environment around it and it can even walk and run! The robot can make sounds, recognise objects and can act a combination of postures, gestures and faces enables it to interact with humans! If in 2013 Honda have developed a mobile assistant like ASIMO, what forms of Artificial Intelligence will be available to us in the future?

JEOPARDY! ®

IBM, a multinational technology and consultancy corporation, developed a computer system capable of answering questions, called "Watson". This was famously experimented on the television quiz show "Jeopardy" in which it competed against former winers for the $1 million prize...

... and Watson won!

This form of arificial intelligence is a famous example of machines using the understanding of natural language within problem solving and reasoning. It also incorporates elements of machine learning, a type of artificial intelligence that machines use to learn from data, and applying its recently acquired knowledge during its interactions and functionalities.

Artificial Intelligence

This workshop centers around the idea of whether or not computers could be intelligent, bringing together Turing's work on intelligence and the idea of embodied cognition and robots using online tools (ChatBots) including Turi. A copy of the Turi software can be obtained by contacting Matthew Keegan (mathewkeegan@gmail.com), you can also access any installation instructions required.

The overall theme of the workshop is to repeatedly look at the Turing Test. Running a test using a mobile phone and two humans to begin with, aiming to get the participants familiar with the concept before introducing AI and ChatBots.

After each small activity the group will be asked to vote whether they think computers are intelligent or not.

The participants will be asked to test a ChatBots intelligence, referring back to the Turing Test assessing how well the ChatBots can maintain a natural conversation with a human user.

What questions would you ask a ChatBot?

Throughout this workshop the participants will gain a frm grasp of what Artificial Intelligence is, recognise how it is applied and implemented when designing and developing technology. The students can enjoy using various ChatBots and testing their intelligence, and consider how they would improve the ChatBots. The students will be able to understand and confidently discuss human vs machine intelligence.
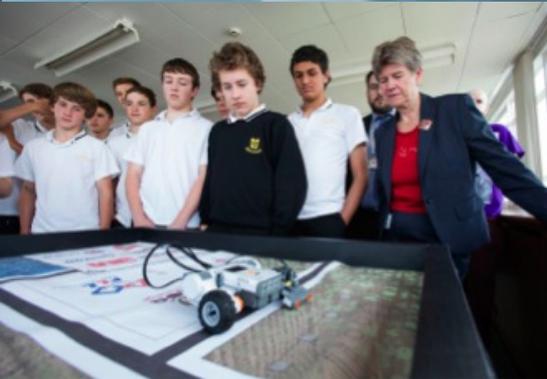
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