



Animus



University of Sheffield

 Program and remotely connect to robots with total ease

TECHNOLOGY DESCRIPTION

Animus is a lightweight and universal robotics library with four aims:

- to make robotics programming easy enough for ages 10+
- to allow robotics applications to connect to a robot and run from any operating system, both desktop and mobile, and using the programmer's language of choice
- to eliminate the learning curve inherent in robots by engineering a standard and fully portable API
- to make robots first-class internet connected citizens

Animus changes the way robots are programmed by abstracting a robot into a set of sensory modalities.

Animus shifts the focus of a roboticist from hardware control to the task at hand.

Animus makes programming easy and allows you to connect to your robot from anywhere in the world

AREAS

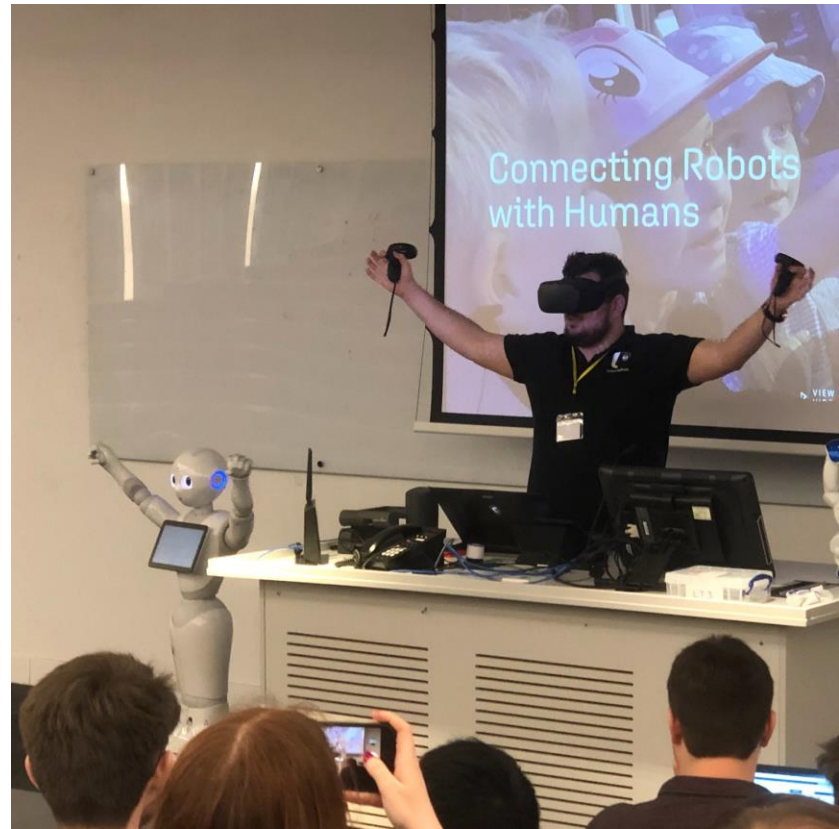
robotics | computer science | computing





COMPETITIVE ADVANTAGES

- **Ease of Use:** Animus exposes a simple API that means anyone can start programming a robot within a couple of hours rather than weeks or months required to learn the robot's proprietary way of programming
- **Connectivity:** You can manage your robots and launch apps created with Animus from anywhere in the world. Animus has been engineered with latency in mind to allow for responsive robotics apps
- **Portability:** Apps created with Animus for one robot can be immediately run on another robot without any code changes.
- **Availability:** Animus is free for non-commercial use with a yearly license for hardware robots and advanced features



Animus :
Simple and Universal Robot
Programming

APPLICATION & MARKET POTENTIAL

- Animus opens up the world of robotics to ages 10+. Students can be assured that the skills learned on a cheap robot in school will transfer directly to the expensive robot in their future workplace
- Telepresence is our first application with Animus and allows an operator wearing a VR headset to fully control a robot remotely. This is especially applicable for epidemics and hazardous environments.
- Animus can significantly speed up the delivery of new robots to market by using our standardised communications library as shown through our partnership with Roboy.

TECHNOLOGY READINESS LEVEL



REFERENCES

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More information can be found on our website at www.cyberselves.com

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