



# Optimised Robot Performance

**USING AI FOR SOPHISTICATED SIMULATIONS OF ROBOT OPERATIONS**

Manufacturing | Logistics | Healthcare

The  
Alan Turing  
Institute

accenture



# Optimised Robot Performance

*Want a sneak preview of the research?  
Click to hear from our presenter.*

**USING AI FOR SOPHISTICATED  
SIMULATIONS OF ROBOT OPERATIONS**

## The challenge

Using robots in industry can be hugely beneficial, impacting on efficiency and operations. But the decision to include robots shouldn't be taken lightly—it can be risky if organisations are unsure of future performance. This lack of knowledge can lead to wasted investment and poor facility design for these spaces.

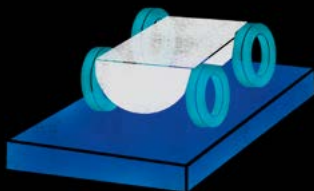
## Our research

We can solve some of the unknowns, by creating sophisticated and accurate simulations of how robots, humans, and the space will perform.

Our approach means focusing on a specific sub-set of the entire space, which we then plug into the bigger picture. This technology allows us to design the optimal workspace for both robot and human alike.



*We use real data to simulate how robots are likely to perform in a workspace.*



To find out more, contact Nick Hawes:  
**[nickh@robots.ox.ac.uk](mailto:nickh@robots.ox.ac.uk)**

### Project team:

Nick Hawes, Oxford Robotics Institute;  
Nick Akiona, Accenture.