



A Taste of Robot Programming

UBD STEAM Festival 2025

2-4 PM, 12 JUNE 2025

Robotics and Intelligent Systems Laboratory (ROBOLAB)

School of Digital Science
Universiti Brunei Darussalam

ROBOLAB





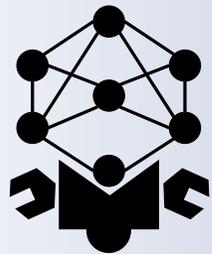
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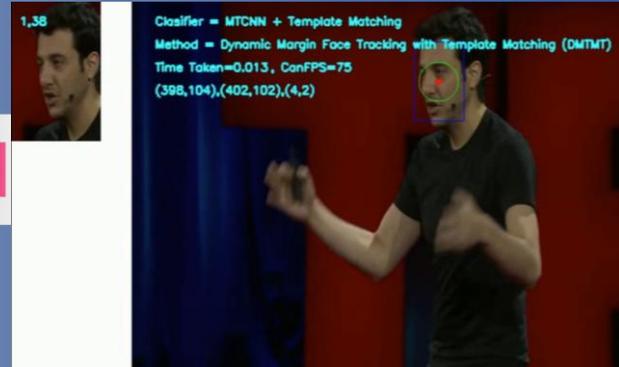
Who are we?

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School of Digital Science
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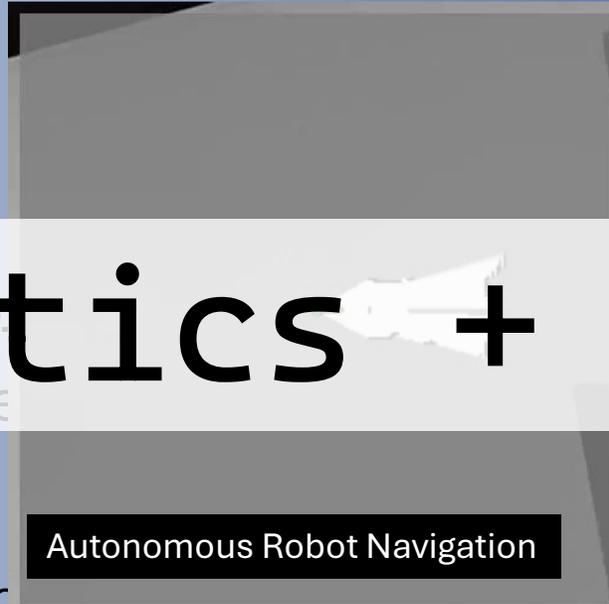
ROBOLAB



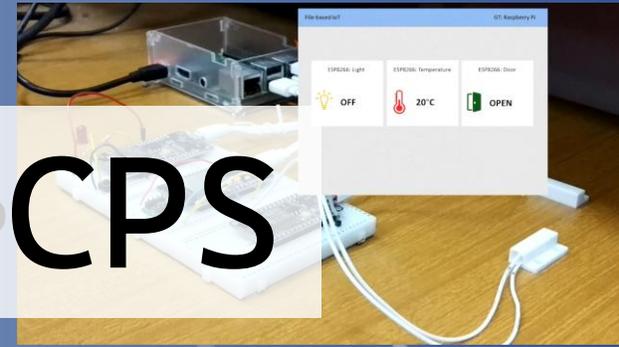
Human emotion recognition



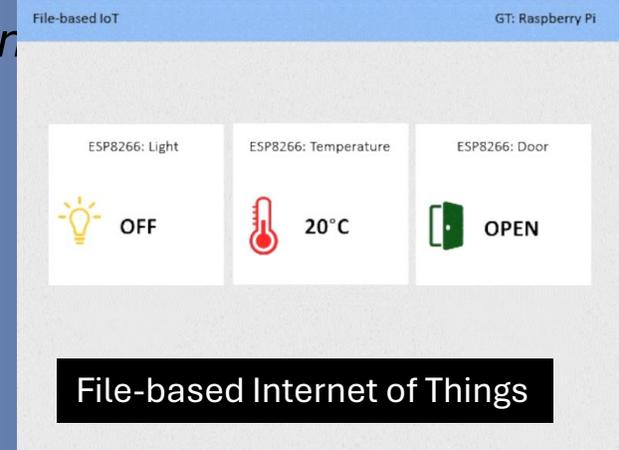
Human Activities Discovery



Autonomous Robot Navigation



AI + Robotics + CPS



File-based Internet of Things

Made with unity

AI

+

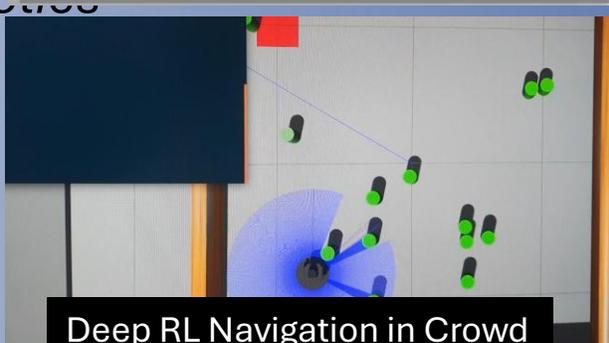
Robotics

+

CPS



Self-Driving Car



Deep RL Navigation in Crowd

AR-based Indoor Navigation



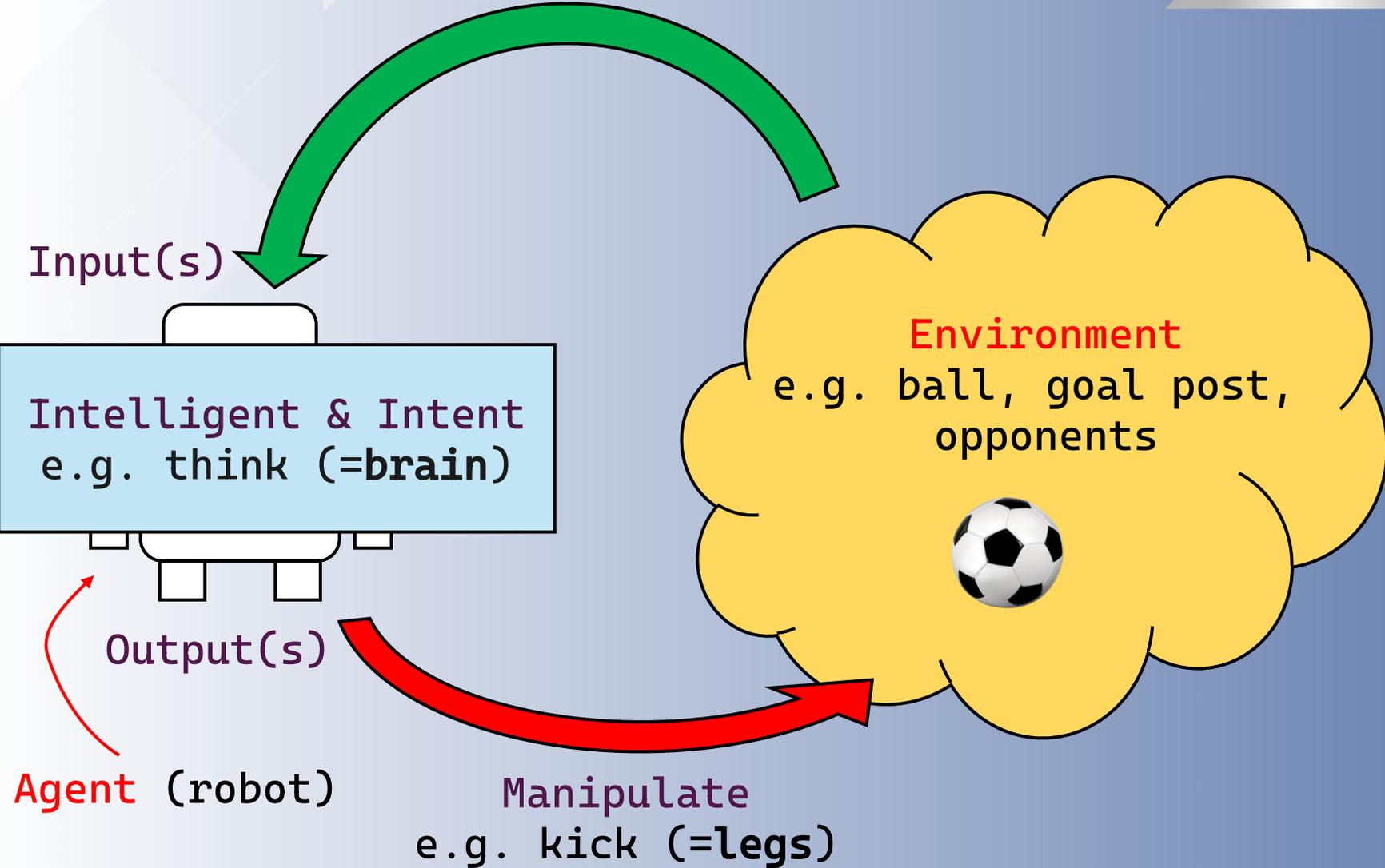
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What is a robot?



Sense
e.g. see (=eyes)



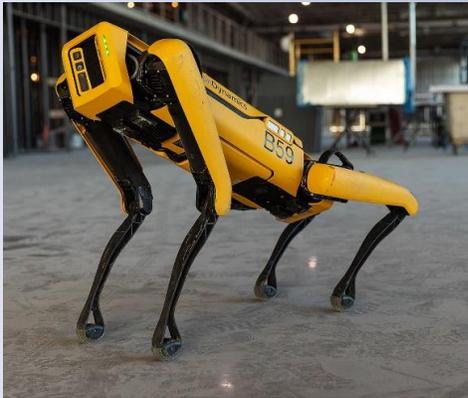
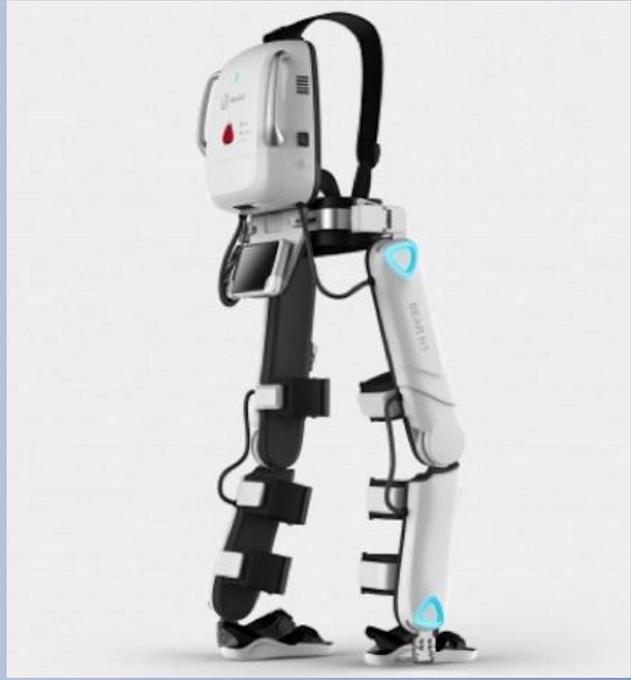


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What can robots do?

(robotics technologies)

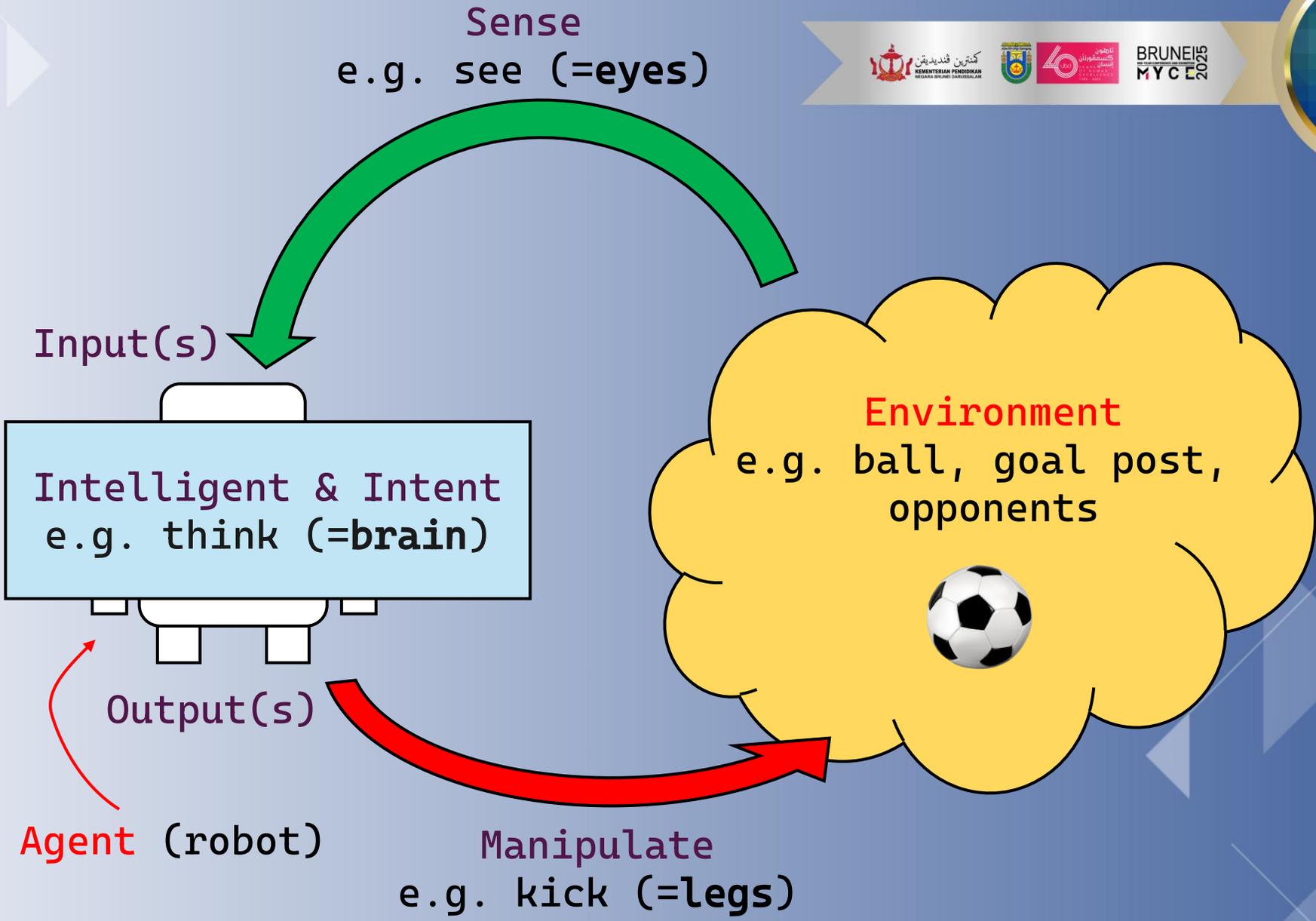




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What makes a robot?

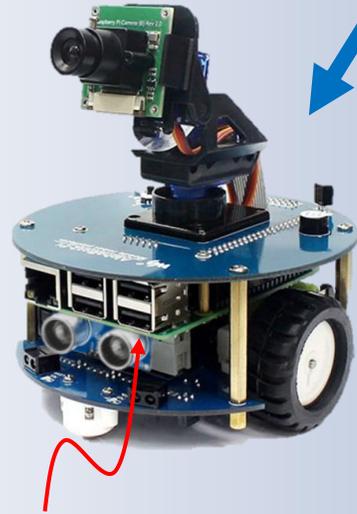




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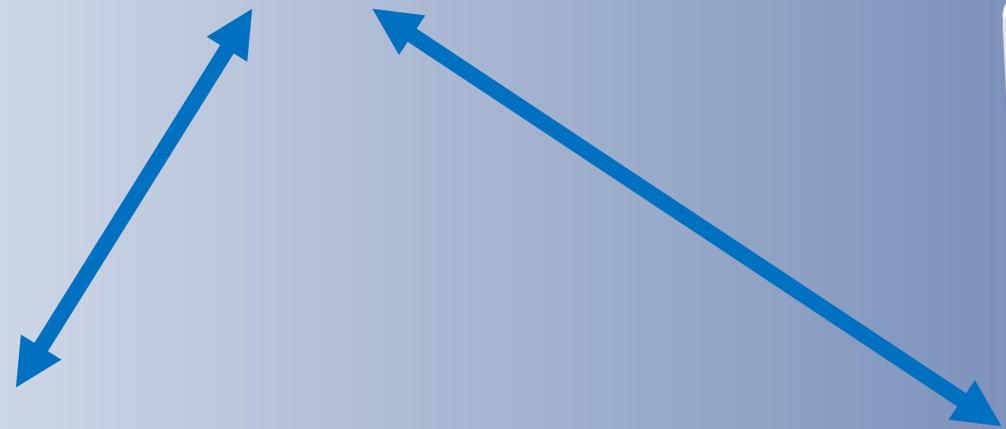
How do you program
a robot?



Robot's "computer"



Programmer's computer





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Let's begin robot programming!



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