

Using AI to Improve the quality of powered mobility u

Northeastern University
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New College of the Humanities

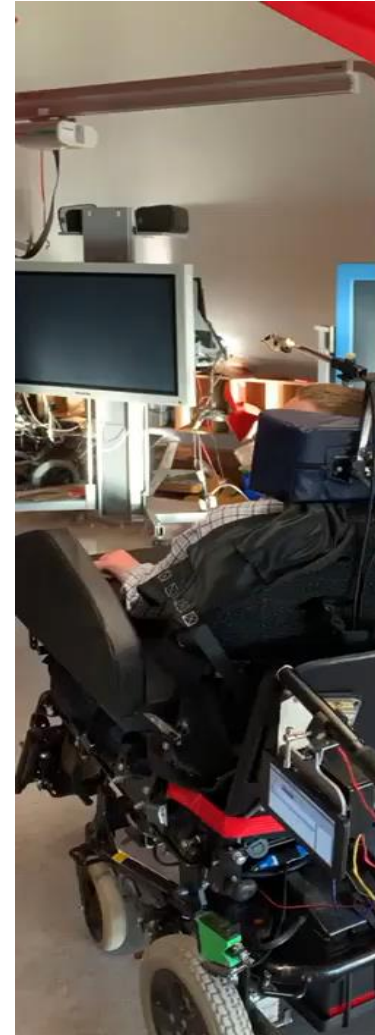
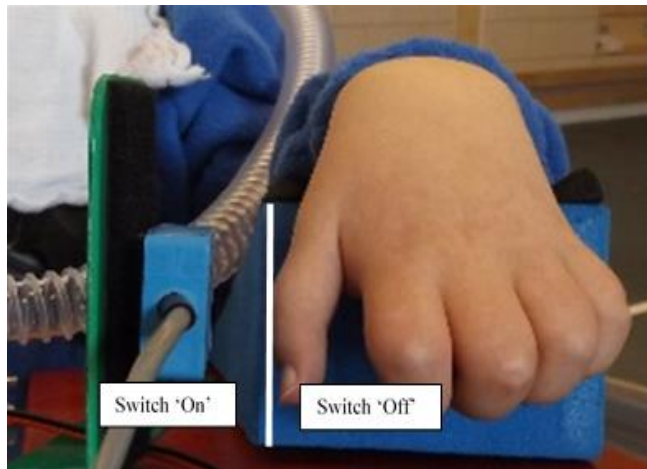
Dr Malik Haddad

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Published Work

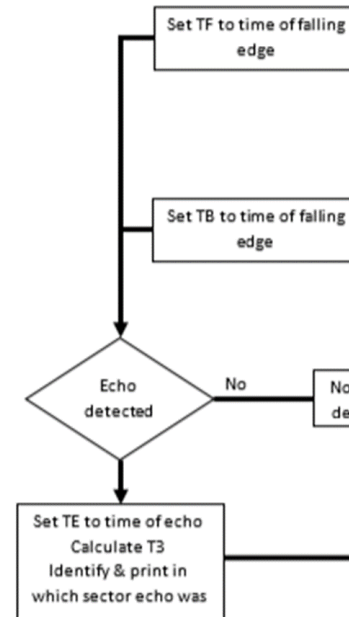
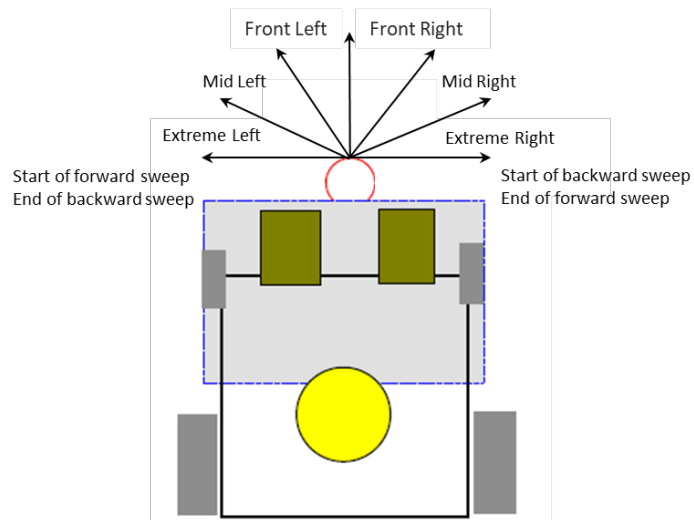
- Intelligent Input Devices
- ✓ Python & Microcomputer



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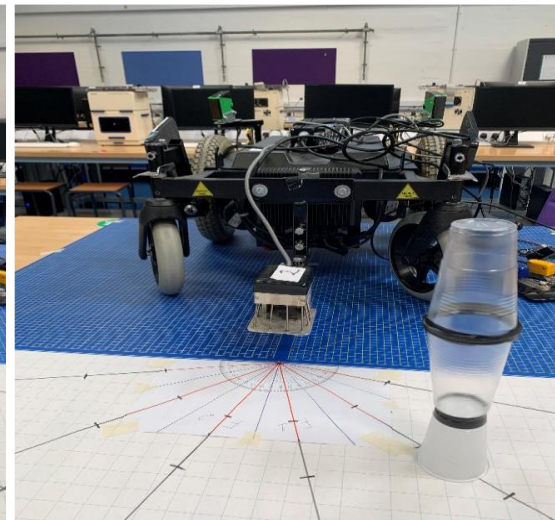
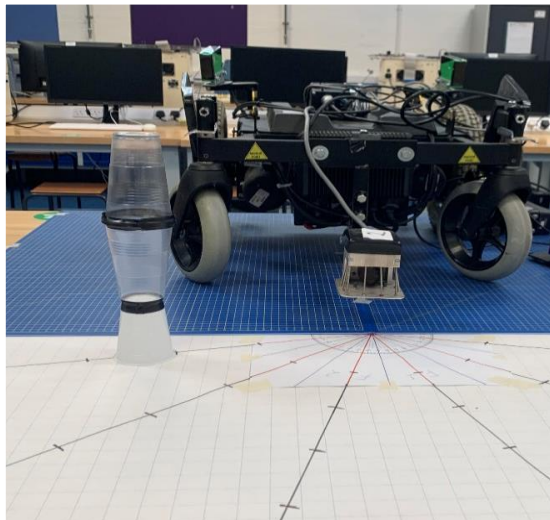
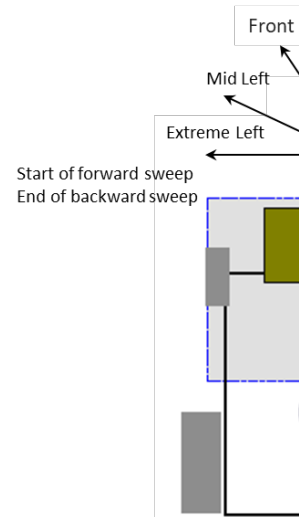
Published Work

- Digital Scanning Collision Avoidance Device (SCAD)
- ✓ Python
- ✓ 2 modes of operation: Stop & Avoid



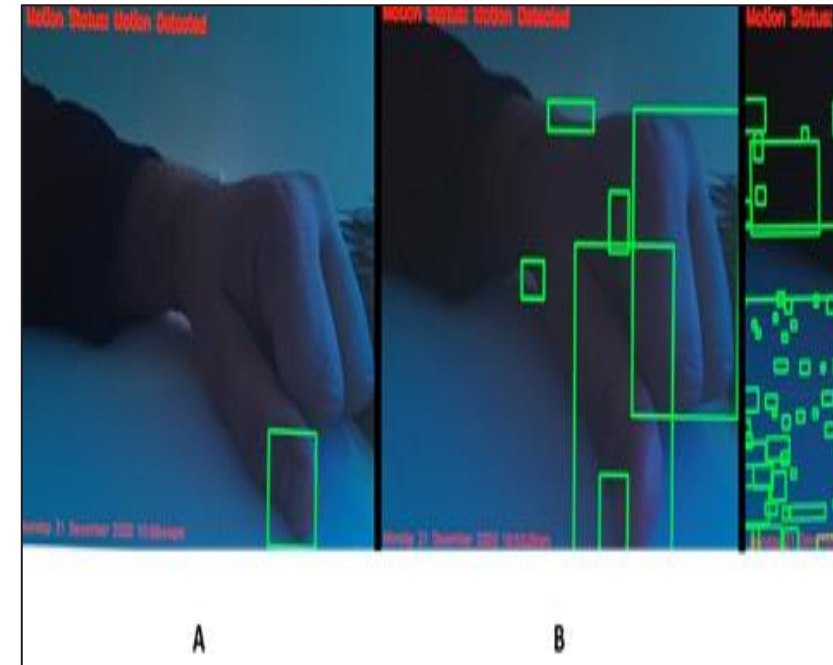
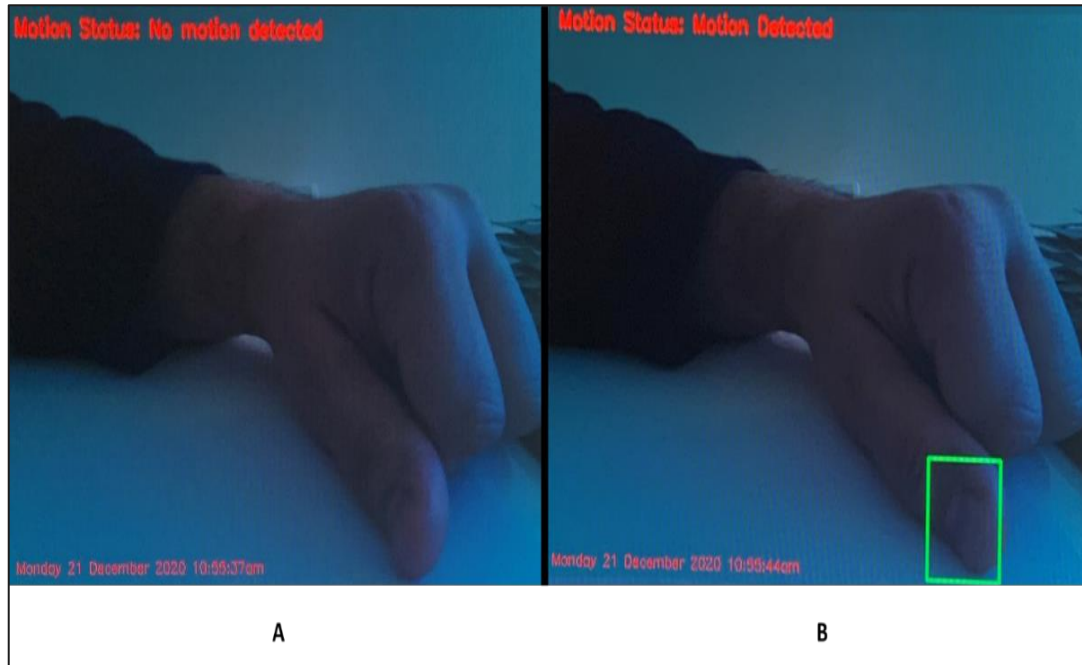
Published Work

- Smart SCAD
- ✓ Python & Microcomputer
- ✓ Machine learning → Classification algorithms



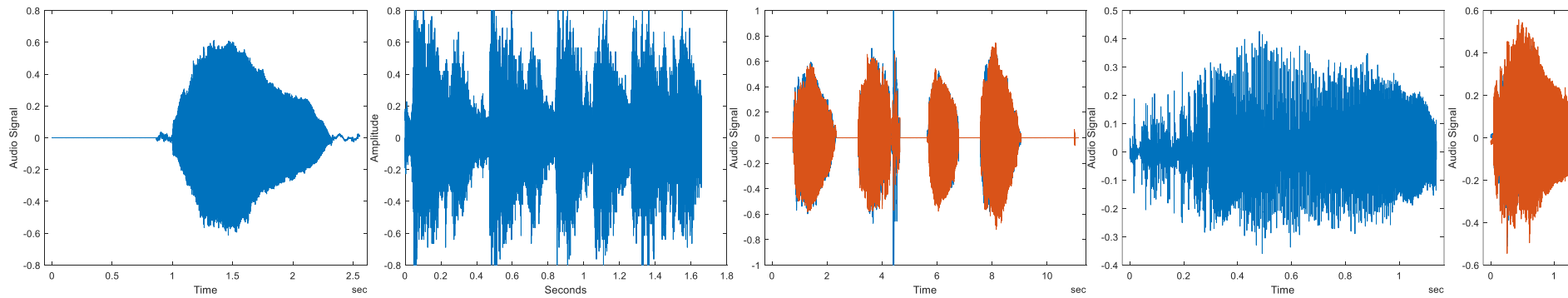
Published Work

Small movement detection using Computer Vision ✓ Python & Microcomputer



Work/Research in Progress

Voice recognition



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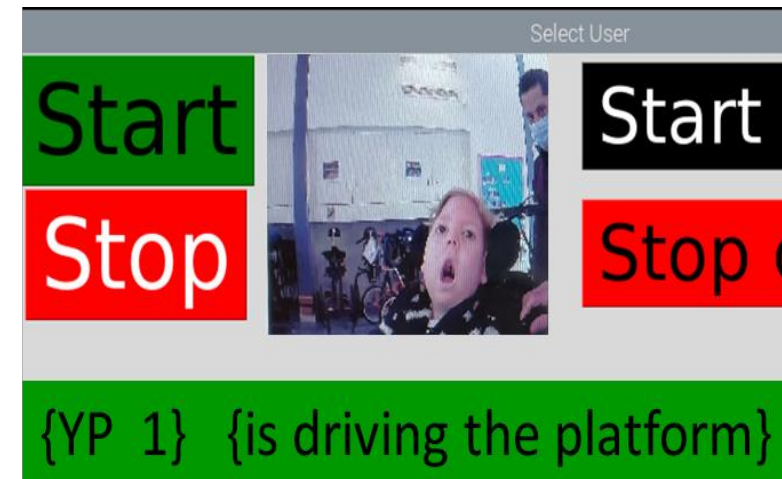
Work/Research in Progress

Voice recognition



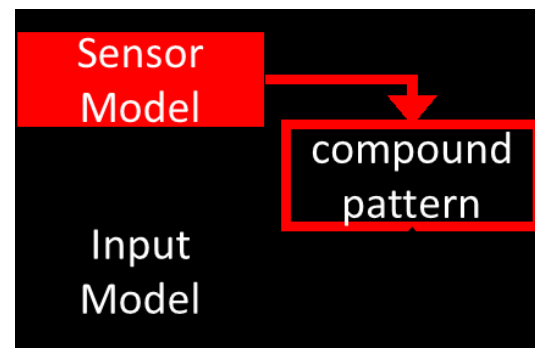
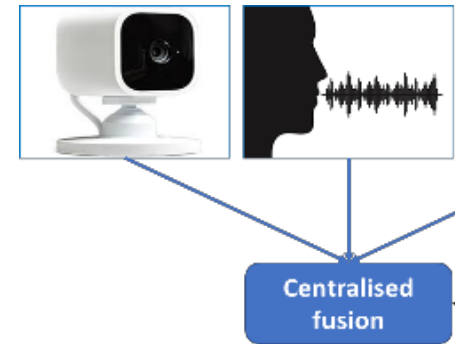
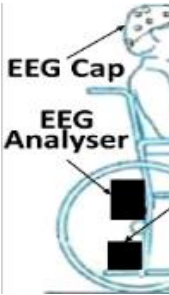
Work/Research in Progress

Computer Vision to identify shared power mobility platform



Future Work

- Intelligent Input Devices: Computer Vision, NLP & EEG helmet
- EEG helmet
- Sensor Fusion
- Compound Pattern
- Include Biosensors



Questions & Comments



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