Integrate Face Tracking Into Driving Simulator

COMP 6470 Special Topic in Computing

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Introduction

- **What**
  - Driver can see the dangers but cannot take action immediately
  - Detect the driver facial expression (like fear) and make the car take action in time (like slamming on the brakes)

- **Why**
  - The number of accidents in driving are much more larger than any transport, like plane and trans.
  - In case of that the driver slammed on the brakes but failed to stop in time
  - Security of driving
Methodology

- HCI Experiment
- Face Tracking
- Testing software and hardware
Future work

- HCI Experiment Setting
- Face Expression Analysis
- Feedback to Driving Simulator
Conclusion

- Introduction (What & Why)
- Methodology (How)
- Feature work (Improvement)
Any Questions?
Thank you