

Contactless A.I. drowsiness detection system based on sensor fusion

港聞

2019年1月14日星期一

【城隧小巴奪命車禍·短片】乘客指司機疑「瞓眼瞓」 死者兒：父轉駕涉事路線「無幾耐」

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2019.01.14

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圖4之1-【城隧小巴奪命車禍】死者兒：父轉駕涉事路線「無幾耐」

【大欖車禍】警方疑司機瞓眼瞓肇禍 專家批評貨櫃錯放車尾容易失控

2018.01.04

更新時間 (HKT): 2018.01.04 14:21



警方消息懷疑司機恰眼瞓肇禍，有專家則質疑把短櫃置於長拖架尾部的做法並不恰當，易增加失控風險(張家豪攝)

- Every year in U.S.
 - > 100,000 reported crashes
 - > 70,000 injuries
 - > 1,500 fatalities

- Drowsy-eye
- Drowsy-mouth
- Drowsy-face down
- Drowsy-nodding



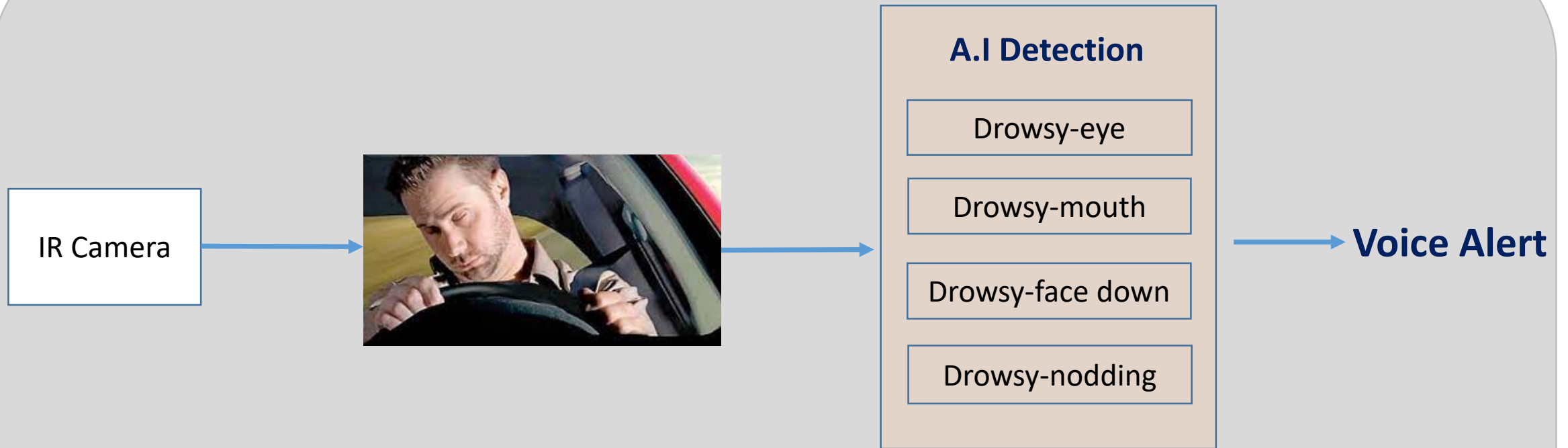
System Overview

Speaker for
voice alert

Embedded
System

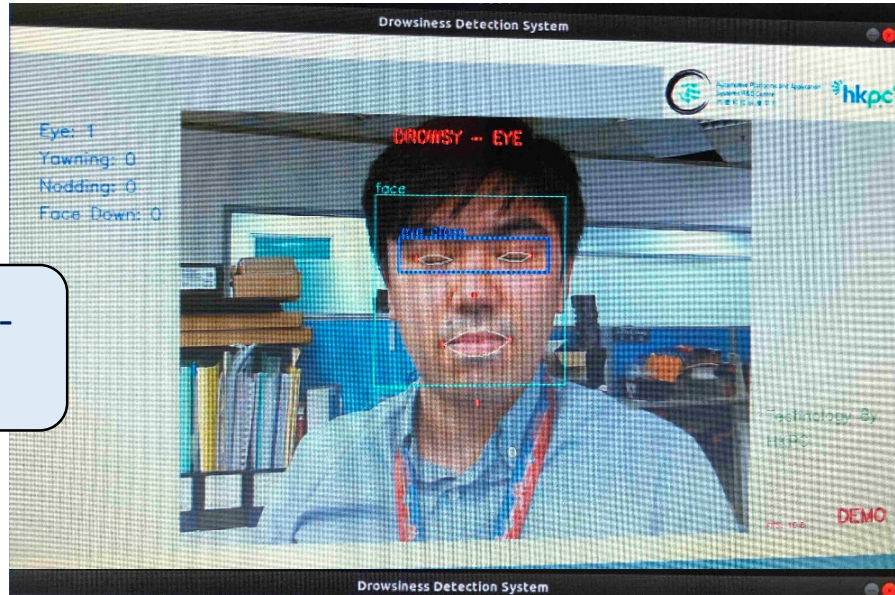


IR Camera

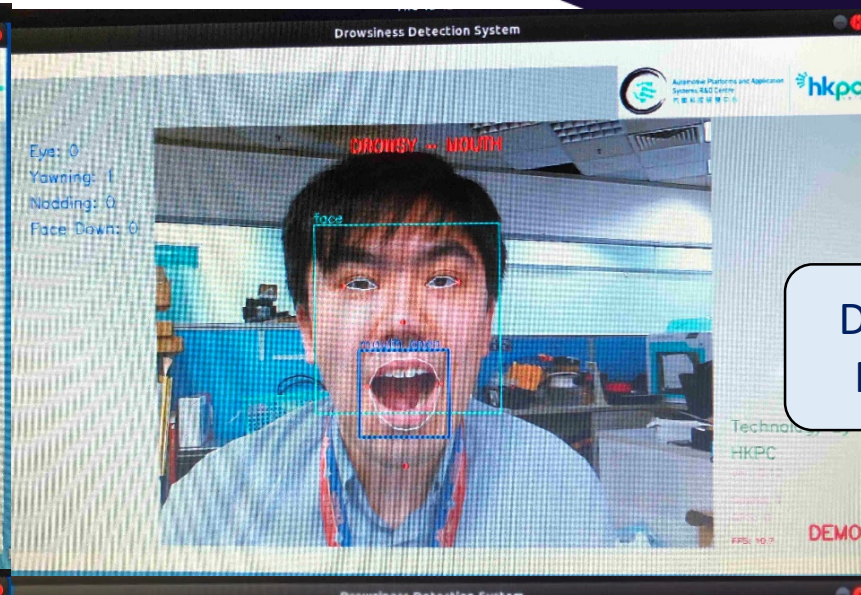


Demonstration

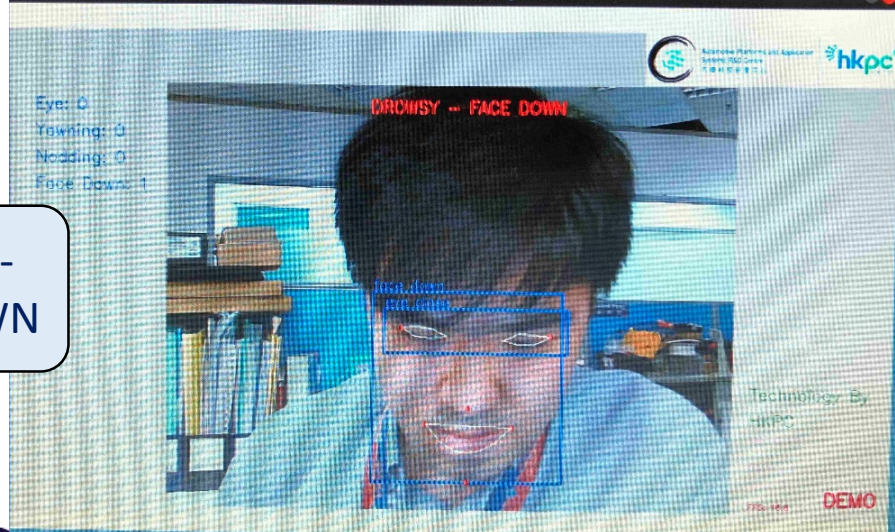
DROWSY-
EYE



DROWSY-
MOUTH



DROWSY-
FACE DOWN



DROWSY-
NODDING



Key Features of the System

- Real time drowsiness detection, voice alert the driver when drowsiness detected to enhance driving safety
- Contactless detection algorithms (eyes motion, yawning, head movement)
- Low-cost
- Easy to install



**CONTACTLESS
ATTENDANCE
SYSTEM**

Drowsiness detections for pilots/captain:

- To monitor the drowsiness of the pilot and captain



Baby monitor:

- To recognise baby facial expressions
- Send a notice to the parent when the baby wakes up or crying

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Thank you