

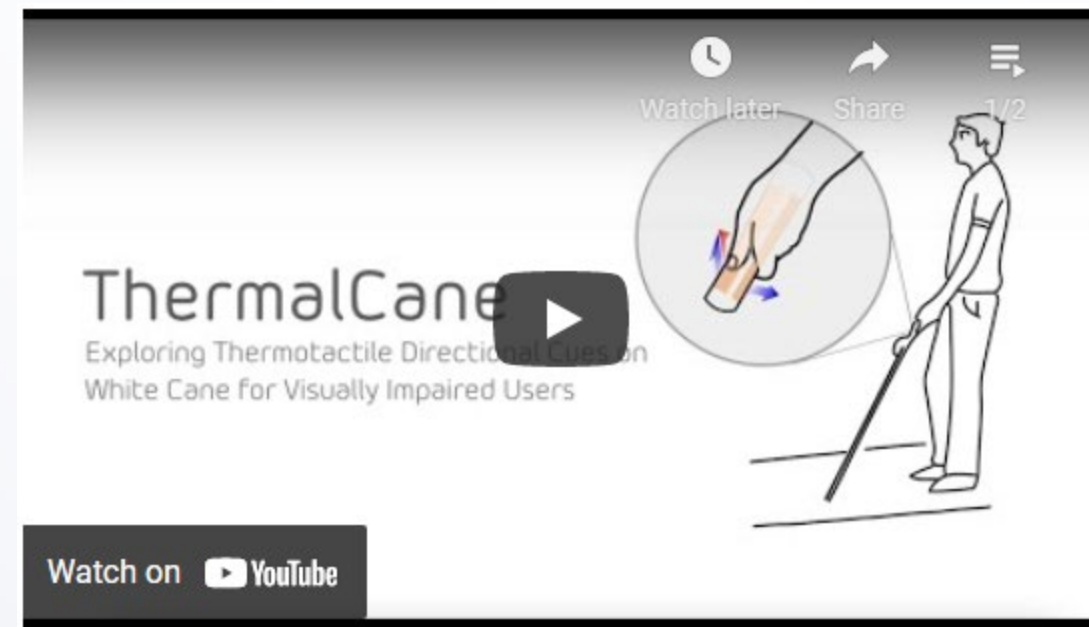
Technology Brief of CityU's IP

- A Human-Interface Device and a Guiding Apparatus for a Visually Impaired User including the Human-Interface Device (IDF#937, US 63/141,000)



A Human-Interface Device and a Guiding Apparatus for a Visually Impaired User including the Human-Interface Device (Electronic cane grip instrumented with thermal haptic feedback)

- Electronic white-cane grip for visually impaired people in existing market notifies obstacles by vibrohaptic feedback or audio
- ThermalCane Grip: a white-cane grip notifies by thermal feedback and is navigated via connection with smartphone.



<https://youtu.be/aNk9bTv-Y0w>



A Human-Interface Device and a Guiding Apparatus for a Visually Impaired User including the Human-Interface Device (Electronic cane grip instrumented with thermal haptic feedback)



Advantages:

- Easily integrate on ordinary white-cane for visually impaired people
- Able to exhibit various thermal patterns upon input/pre-set parameters for dedicated users
- Provide different levels of notification with distinct intensities, pattern to guide users with navigation directions, alarms and other smartphone notifications

Applications:

- Aid visually impaired people in navigation and get smartphone notification on the go.



Thank you!

Q & A