

NRI: A Cognitive Navigation Assistant for Blind People



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Challenge

- Enabling blind people to access the real-world through computer vision and machine learning



NavCog smartphone app is installed in airports, hospitals and hotel to enable independent navigation for blind people

Solution

- Development of a smartphone app and mobile robotic system for turn-by-turn navigation

Scientific Impact

- Base technologies can be used by any CPS that requires understanding the state of the user

Broader Impact

- Enables independent navigation for people in new environments
- Primarily supports people with limited mobility (blind people, wheelchair users)