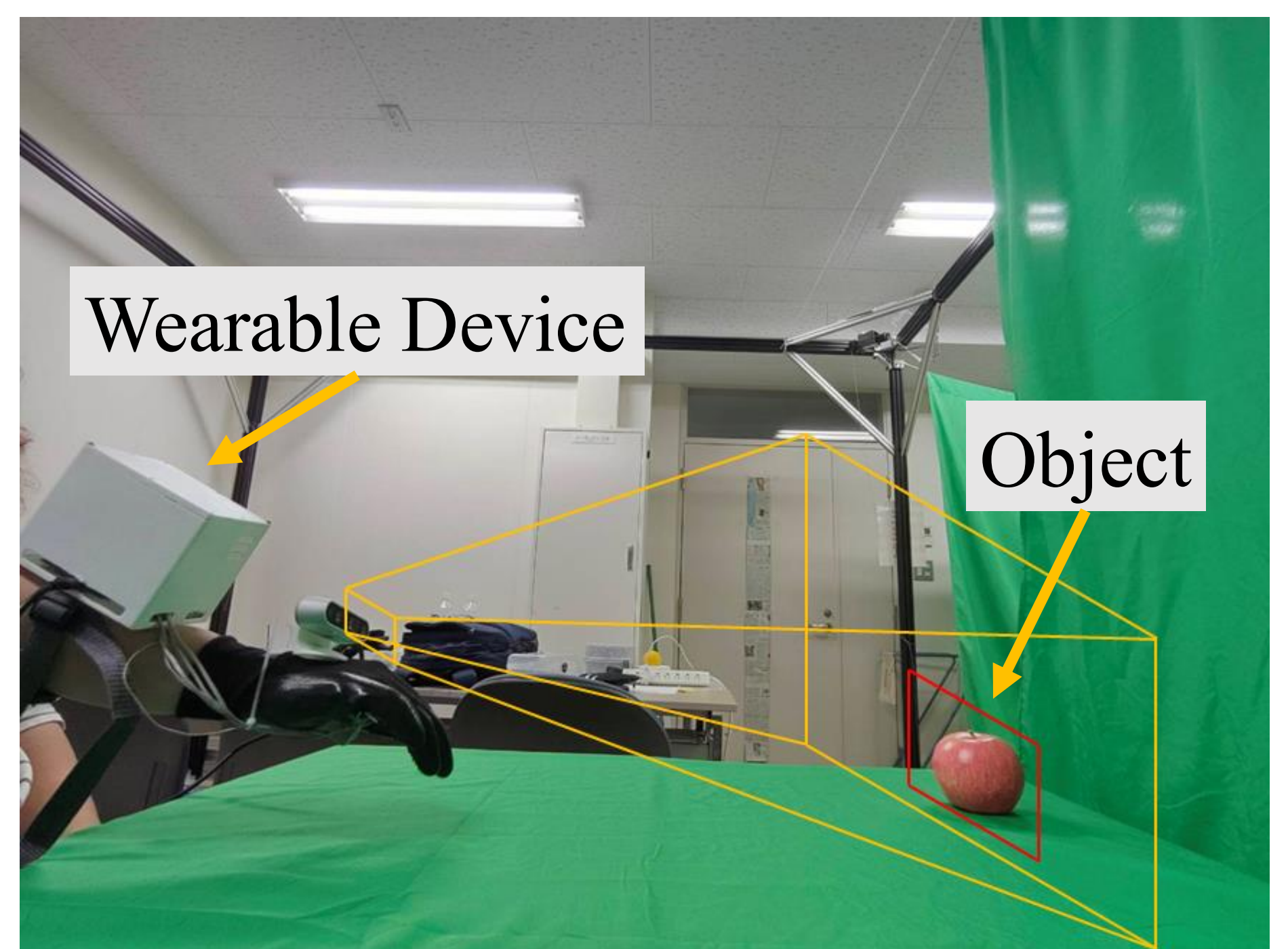


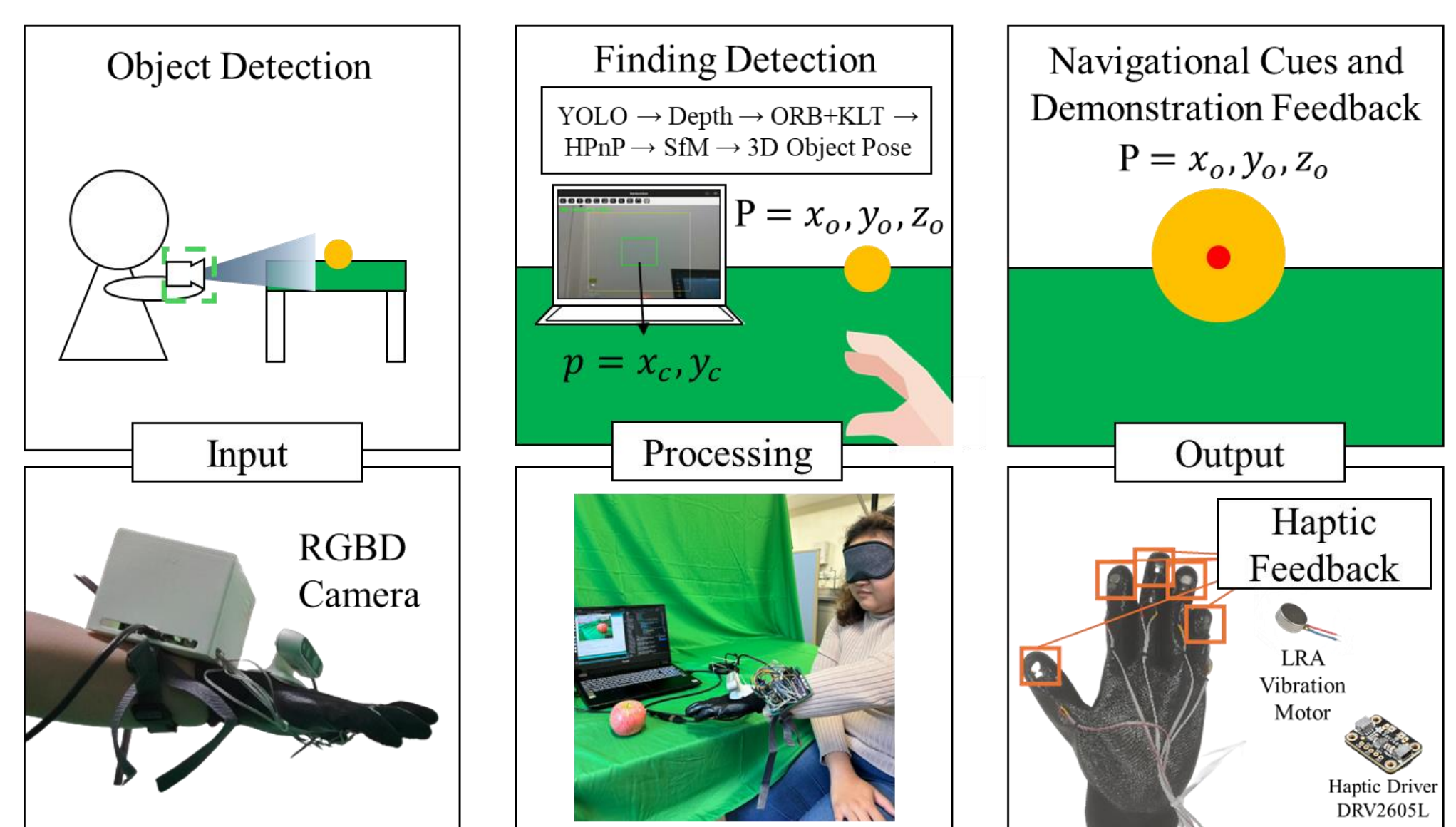
視覚障害者のためのウェアラブルハンド触覚フィードバックガイダンス Wearable Hand Haptic Feedback Guidance for Visual Impairment

This research aims to develop a hand-held camera system for blind individuals, utilizing vibrational feedback to enhance spatial awareness. It seeks to integrate user feedback for adaptive improvement, promoting independent navigation in diverse environments.

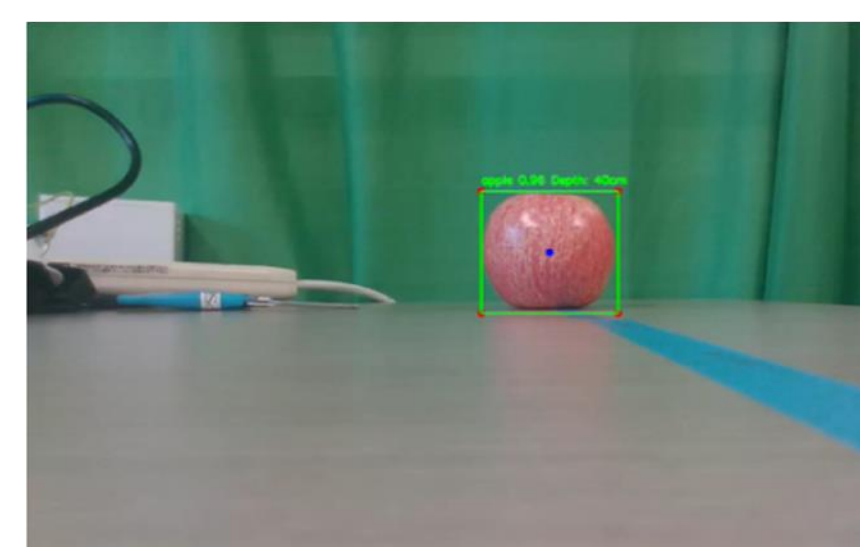
Objective: To develop a wearable device using haptic feedback and object detection in real-time scene for aiding visual impaired person in reaching the detected object



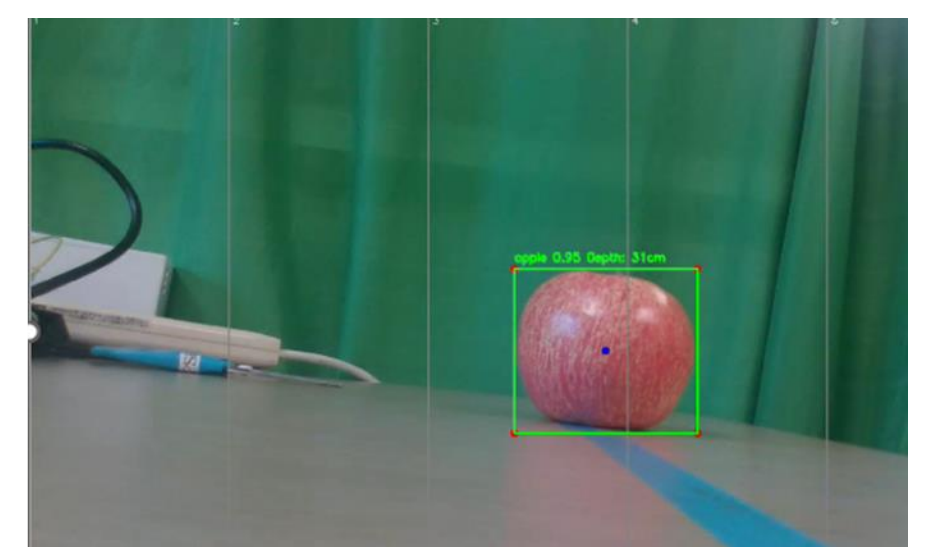
Proposed method are using ROI (Region of Interest) based on Camera FOV (Field of View) for targeted object detection with vibrational feedback across one and five partitions.



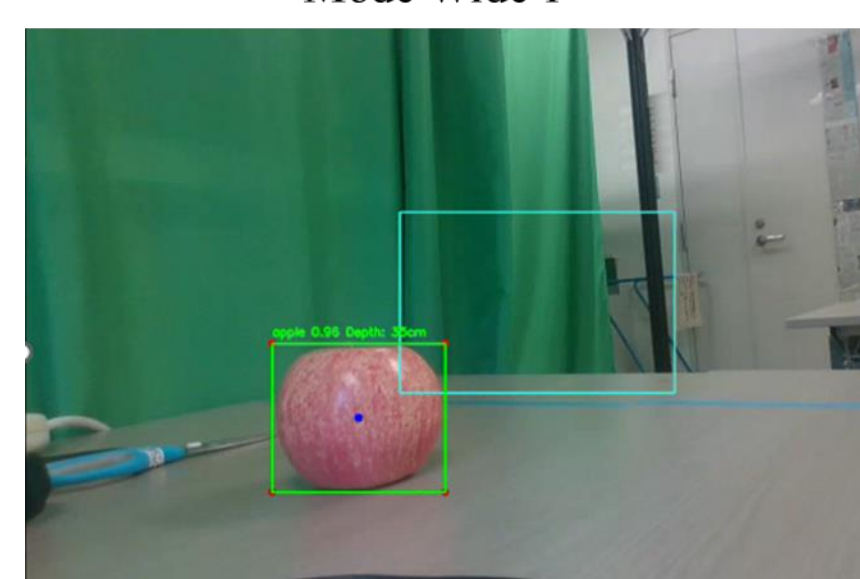
Utilization of proposed method not only enhance processed information by the user but also improve the human-in-the-loop system. Allowing humans in modifying device output



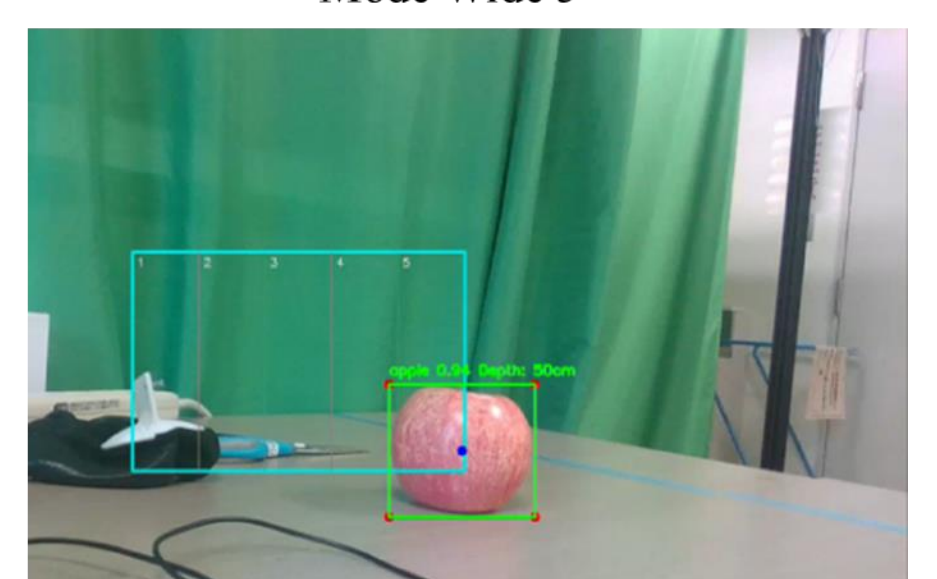
Mode Wide 1



Mode Wide 5



Mode Narrow 1



Mode Narrow 5