Modes of Interaction for a Cognitive Shopping Cart

InBOT and user share control depending on the mode

Modes of Interaction
- Haptic Steering Mode
- Following Mode
- Guiding Mode
- Autonomous Mode

Modalities of Interaction
- Interaction initiates
- mode transitions

Robot controlled modes
- Guiding Mode
- Autonomous Mode

User controlled modes
- Haptic Steering Mode
- Following Mode

Assistive functionalities:
- Advise & Navigation
- Obstacle Avoidance

Main control:
- Topological navigation
- Behavior-based control
- Handling of dynamic objects

Interaction initiates mode transitions

Modalities of Interaction
- Speech commands and feedback
- Force sensitive handlebar
- Touch screen Interface
- Gesture recognition

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