gofi
the golfball finder

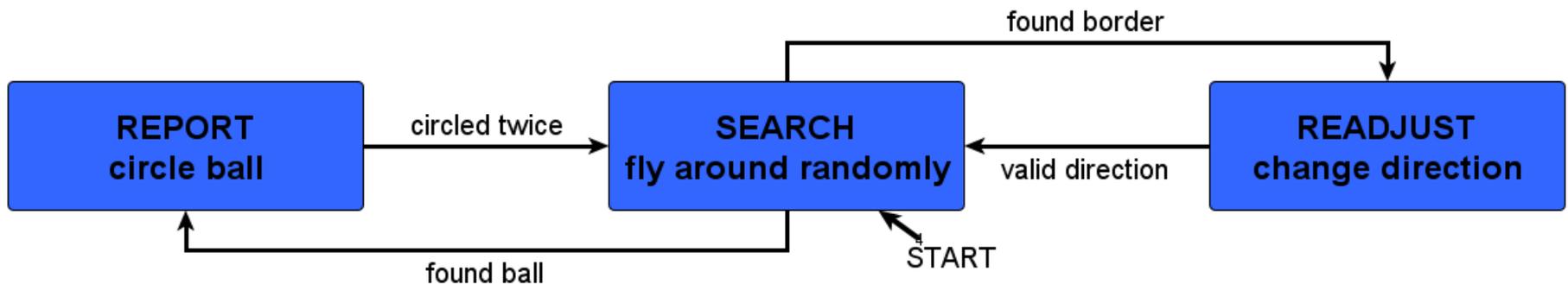Ranjini Aravind

Anton Wilhelm

The Problem

- Est. 300 million golf balls are lost each year in the US.

- Golf balls are lost in lakes, forests, deserts, gardens, parking lots, cemeteries, ...

- Tracking and re-selling of lost golf balls is an annual $200 million industry
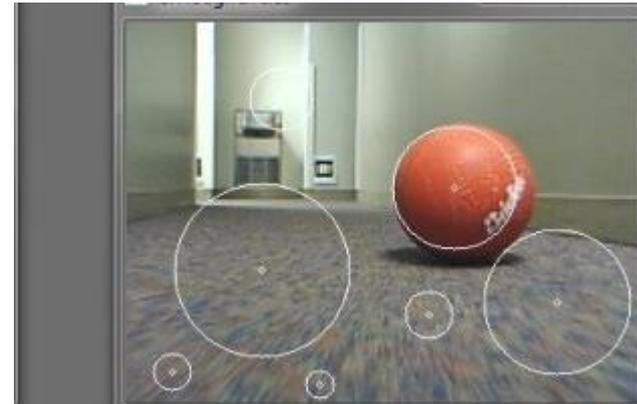
Solution

Autonomously track and find misplaced golf balls in a field:

- Randomly navigate through area

- Hover and rotate over found golf balls

- Do not leave boundaries of golf course (colored line)

Realization

- Use openCV for golf ball recognition

- Use third party software for boundary line recognition

- If boundary found, chose random valid angle

- For prototype: golf balls and ground color may not be white/green

Future Goals

- Obstacle detection and avoidance for detection of balls in forests, etc.

- Use markers to determine and transmit position of lost golf balls

- Attach claws to pick up golf balls and bring them back automatically

Thank you for your attention!