

## HUGGLER

PET THERAPY ALTERNATIVE FOR ELDERLY PATIENTS



### CHALLENGES

Recognizing type of touch on a large area surface will require an array of tactile sensors. Such configuration increases the complexity, cost and weight of a product.

### OUR SOLUTION

Touch interaction on any surface inherently produce distinctive audio signature that can be captured by surface microphone(s). These audio signatures generated while touching a surface (tickle, hit, stroke and squeeze) can be accurately classified using I2R sound event classification that was previously used in projects related to surveillance and robotics.

Low cost surface microphone(s) installed on a hard or soft surface. Audio signals captured by the surface microphones will be classified using I2R sound event classification technology running on Android OS or Windows platform

### BENEFITS

- Low cost and processing sensors
- Detect non-verbal emotional actions (e.g. squeezing, hitting, stroking and tickling)

### APPLICATIONS

- Monitoring mental wellbeing through pet therapy
- Interactive Toys
- Interactive surface for various application

(Above)

1) Detecting non verbal actions

