Robotic Self-awareness

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Abstract

This paper presents the first self-awareness experiments.

1 Introduction

- Small story behined this paper

With current advances in the robotics multisensory platforms, it is time to utilise these capabilities and construct a robot that able to dynamically interact with humans and other robotic agents.

- last paragraph of the paper structure.

1.1 What is self-Awareness

- self-awareness difinition in human.
- why it is important in the human (one sentance).
- self-aware the robot fesaibility, if applicable.
- emphsis the in-to-out approch (one sentence).

1.2 Absence of self-awareness and the problems associated with a robot lack of self-awareness

- current robot status and how robots works in some different environments.
- some problems because of robot is not aware.
- possible applications.

2 Literature review

2.1 levels of self-awareness

- Human five levels of self-awareness

2.2 Related literature on self-awareness

- current efforts to create the robot self-awareness.
- other methods and approches to create the Robot self-aware.
- our method and approch to create the robot self-awareness.
- why we see our approch is better and unique (from in-to-out).

3 The Self-Aware Architecture

3.1 Design and Rationale

3.2 Materials and Methods

3.3 Implementation of Level 1

4 Experiment

4.1 Evaluation cases

4.2 Discussion

4.2.1 How to move forward to Level 2

5 Conclusions and Future Work

Work on next level of self-awareness.