robopec

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Emotions in Human / Robot interaction

Summary-----

- Why to express emotions ?
- How to express emotions without being scary ?
- Panel of emotions
- Perception of emotions
- The social interaction
- Some present and future applications
- Reeti, an expressive Robot

Why to express emotions ?

- Attractivity / sympathy of the robot
- Non verbal interaction

Without expressivity / With expressivity



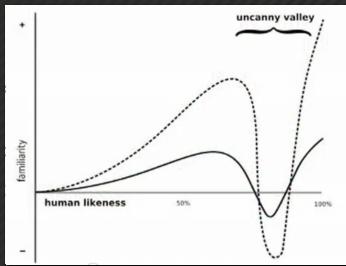


How to express emotions without frightening?

Uncanny Valley

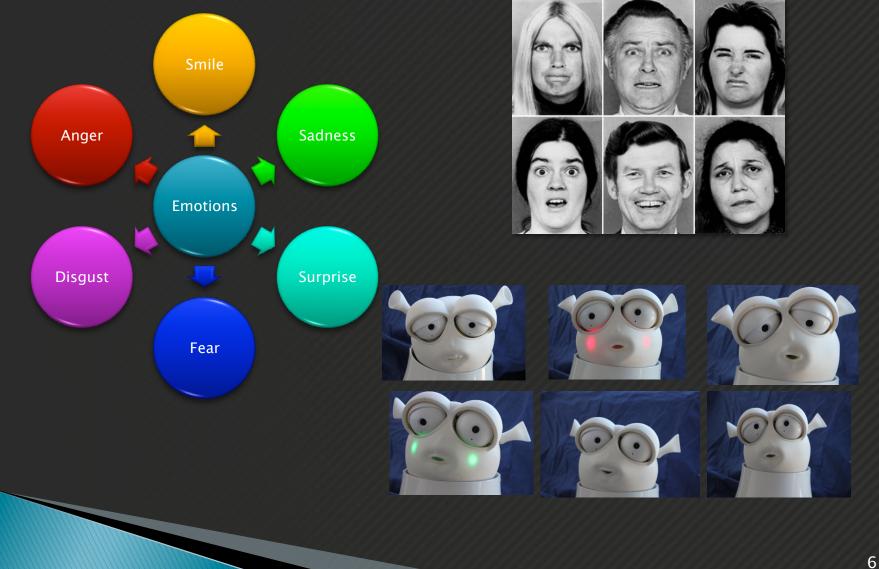
The Design Avatar

Movements / Face / Colors



Eyelids / Eyes / Mouth / Neck / Ears
Image: Second se

Panel of emotions





Multimodal perception

Analyse of dynamical behavior

Social interaction sociale through emotion

- Which « intelligence » between perception and expression of emotion ?
- Elementary reactive AI
- Intelligent behaviors function of :
 - history
 - social context
 - state of the robot (temper, personality)

More Researches in AI ...

Some applications

Promotion on booth or at entrance

- Presentations, animations
- Interactive Quizz





Some applications

Education :

- Educative games
- « Assistant » of the teacher
- Teaching support
- Video games
 - Robot avatar of the game
 - Robot presenter of the game
- Videosurveillance and « intimidation »

Future applications

• Research in :

. . .

- Natural human-machine Interaction
- Robotics therapy
- Help for lonely people (surveillance, interaction, web access, ...)
- Social natural interaction

Reeti, an expressive robot



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