

# New HRI?

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# Is HRI different?

- HRI has a problem! – is there a need for schizophrenia?
- Are we robotics?
- Are we HCI?
- Do we need to be different?
- What is required of a community?

# Robotics

- Brady definition:
  - “Intelligent coupling between perception and action”
- Does intelligence need human considerations?
- Intelligence
  - “the ability to acquire and apply knowledge and skills”
- Any semi-autonomy requires consideration of the user

# HCI?

- Human Computer Interaction –
  - The interaction between computers and humans
  - Intersection of CS, Behavior Sciences and Design
- Is a robot a computer? Yes it is also a computer
- How are robots different
  - They move about on their own!
- The relation human computer is ever changing

# Is the changing relation relevant?



[Severinson et al, 2003]

- CS, BS and Design?
  - The changing relation challenges the normal model of interaction
  - Speech – too noisy
  - Graphics – can I see it?
  - Gestures – robust vision?
- Interaction as a cooperative model
- What can you assume about the dialog?

# Is HRI really HRI?

- HRI is multi-faceted

	Contact	Speech	Graphics	Gestures	Motion
Encounters					
Skill Learn					
Task Learn					
Joint Task					
...					

- So what is HRI research?

# HRI Research

- Studies of Human-Robot Interaction
  - Design of robots for interaction with humans
  - Studies of methods for human robot dialog
    - Dialog is a broad problem here
  - Evaluation of usability by users
    - Short-term and Long-term

