Design of Physically Grounded Communication System

Michita Imai

Physically Grounded Communication System

- What communication can a system assist?
  - Human-Human
    - CSCW (Computer Supported Cooperative Work)
  - Human-Computer/Human-Environment
    - HCI(Human Computer Interaction), Ubiquitous, Wearable
  - Human-Agent/Human-Robot
    - CG agent, Avatar, Robot

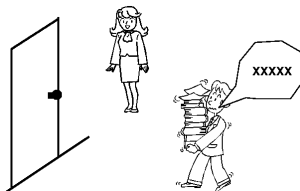## Physically Grounded Communication System

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Human-Agent/Human-Robot Interaction
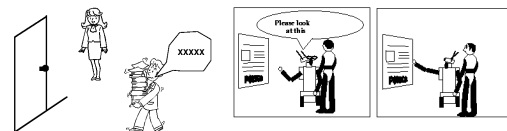
- Sharing Communicative Intention (意図）

Human-Agent/Human-Robot Interaction

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Human-Agent/Human-Robot Interaction

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- You can learn
  - What is "intention" or "intended action"

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TOPIC

- SHRDLU   Terry Winograd
- Subsumption Architecture   R.Brooks
- Intention Is Choice with Commitment
  - Philip R. Cohen
- Joint Attention
- Situation Semantics
- Communication Robots

TOPIC

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- How a system expresses its intention
  - Joint Attention
- The effect of local viewpoint in sharing
  - Situation Semantics
- Applications
  - Communication Robots

Task and Evaluation

- Short questions in the class
- One report
  - Survey and design an intentional agent
  - July

Lecture webpage

- http://www.ayu.ics.keio.ac.jp/~michita/realworld2014
  - Not in service still now