

Exam Booklet

Lecture Number: 04

Lecture Name: Verbal communication in human and robot

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Mathematical Model of Communication



Sender: Source that produces the message

Receiver: Destination for which message is intended

Channel: Medium that carries the message

Encoder: Converts message into a signal

Decoder: Converts noisy signal to message

Social

Linear model is not enough

Communication is not only what has been said? but also how was it said?

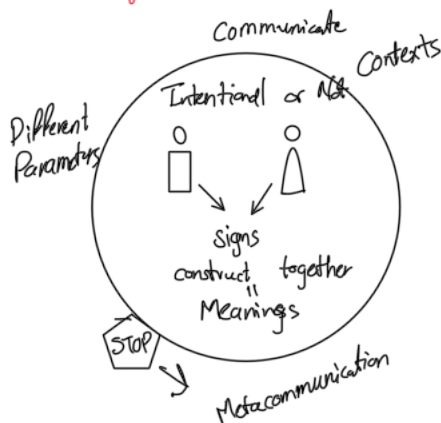
Feedback loops

→ Cyclic process

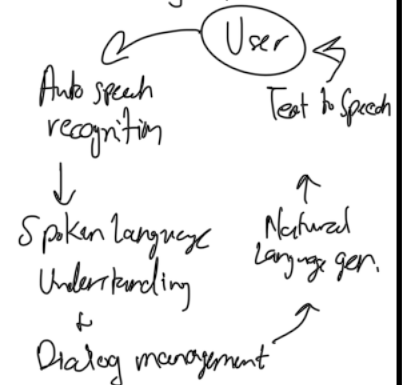
→ Reciprocity (greeting expected to be returned)

→ Sender & Receiver co-construct comm.

Ethno - Socio - Linguistic



Spoken Dialog System Arch



Metacommunication:

communication about Communication

Coder:

Linguistic

Discursive

Socio culture

Psychologic

Communicative
Signs

Robots should be aware that human is constantly interpreting signs sent or not sent by robot & this could influence subsequent interaction with robot

Verbal Communication

Ability of humans to express their thoughts & to comm. with each other through a language.

Language

→ System of communication by speaking, writing, or making signs in a way that can be understood that allow mention of present / past / future situations