Collaborative physical tasks

“two or more individuals work together to perform actions on concrete objects in the three-dimensional world.” [Kraut et al., 2003]

Gaze plays a significant role when referring to objects during a conversation.
Result (Gaze Leading Time)

- **Gaze Leading Time**

- Significantly faster

Bar chart showing:
- Time [sec] on the y-axis ranging from 0 to 8
- Two bars: w/o TE and w/ TE
- w/o TE bar is taller than w/ TE bar
- "**" indicates significance
- "Smiley face" symbol and text: "Significantly faster"

Images of participants with and without TE.
Conclusion & future work

• Purpose: To support gaze cue in remote collaborative physical tasks using a mobile terminal.
• ThirdEye was effective in leading the participants’ gaze faster to target objects
• Future:
  • Investigate the effects of ThirdEye in a more naturalistic live conversation
  • Discuss about a combination of ThirdEye and gestural cues