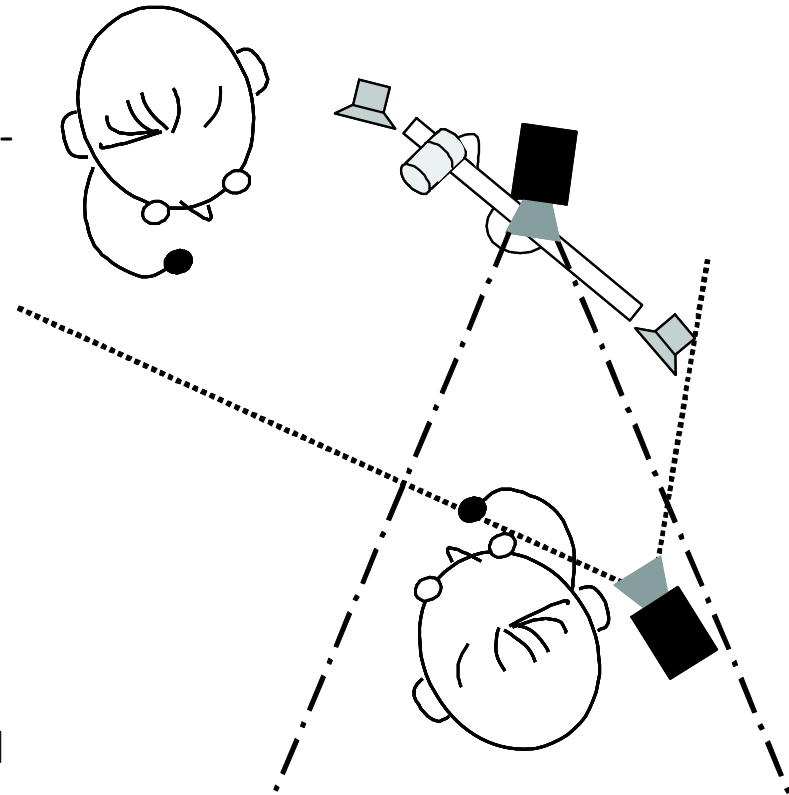


Towards Proactiveness

- Computer as a dialogue partner
 - Modelling human-human and human-computer dialogues relevant to the application at hand (e.g., two users discuss where to go out for dinner)
 - Generating and maintaining a global dialogue history
 - Enabling active system involvement into the ongoing dialogue after user trigger
 - Automatically triggering the system based on the dialogue flow and visual data analysis (pro-activeness)



- P.-M. Strauss et al.: *Evaluation and User Acceptance of a Dialogue System Using Wizard-of-Oz Recordings*, IE07.

- P.-M. Strauss et al.: *Wizard-of-Oz Data Collection for Perception and Interaction in Multi-User Environments*, LREC, 2006.

Example Dialogue

| | | |
|-----|--|--|
| U1 | Look at this weather, isn't it beautiful! | keyword_spotting |
| U2 | Absolutely. I'd rather be outside. | |
| U1 | Me, too. And I'm slowly getting hungry . | |
| U2 | Why don't we continue with our work in a nice beer garden ? | ((U2)[eat]suggest) start_restaurant_application ((U2)[setting:beergarden]suggest) |
| U1 | Oh, that's a great idea ! [looks at computer] Hey, is there any place in the park ? | ((U1)[setting:beergarden]confirm) start_interaction ((U1)[location:park]request) check_database |
| Sys | Unfortunately not. However, there is restaurant Einstein nearby which has a beer garden. | \$prompt ((S)[restaurant:Einstein]suggest |
| U1 | OK , sounds good. What's the address ? | ((U1)[restaurant:Einstein]confirm) ((U1)[Hirsch:address]request) |
| Sys | Restaurant Einstein is located on Green Street number fifteen. Would you like to see the menu? | \$prompt ((U1)[Einstein:menu]suggest) |
| .. | .. | .. |