Understanding Multiparty Interactions

What is a Multiparty Interaction?

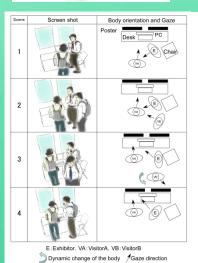


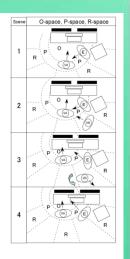
A multiparty interaction is a communication configuration that involves three or more participants. In the field of dialogue processing for human-machine interfaces (HMI), researchers have tried to build an environment in which the machine interprets an individual human's behaviors and provides suitable information. One of the key technologies necessary for this is the ability to read individual human behaviors correctly. In contrast, the processing of multiparty interactions aims to build an environment in which an artificial agent can participate in an ongoing human conversation (*i.e.*, in a multiparty interaction). Some of the key technologies necessary for this are an understanding of turn-taking systems, a participation framework that consists of multiple participants in conversation, and the design of natural timing and behaviors for the artificial agent involved in the conversation.

Analysis 1: Facing formation and Participation Framework



Facing formation (Kendon, 1990)



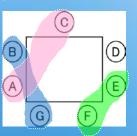




Participation Procedures, one Suzuki, Katagiri (2007)

Analysis 2: Schisming in Multiparty and Sign Language Conversation















Analysis 3: Disfluency and Multimodality









TKKAJ 2nd mora of HOME)

「O」 「YA」 (1st mora of PARENTS, 2nd mora)

