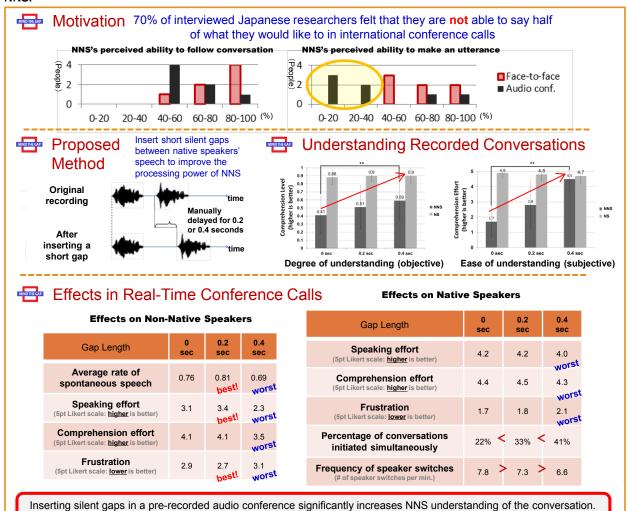


Ways to support non-native speakers in a conference call

How transmission lags influence multilingual communication

Abstract— Previous research has shown that audio communication is particularly difficult for non-native speakers (NNS) during multilingual collaborations. NNS are overburdened both by having to communicate with imperfect language skills, and by the need to compensate for distorted audio signals. To give NNS more time to process conversations, we tested the insertion of silent gaps (from 0.2 to 0.4 seconds) between conversational turns, and observed a significant improvement in NNS' understanding of pre-recorded conversations. In a real-time audio conference, an added artificial delay between the conversations of native speakers provided a combination of beneficial and detrimental effects for both native and non-native speakers. The findings have implications as regards how audio conferencing can be improved for NNS.



Related works

[1] N. Yamashita, A. Echenique, T. Ishida, A. Hautasaari, "Lost in Transmittance: How Transmission Lag Enhances and Deteriorates Multilingual Collaboration," in *Proc. CSCW'13*, pp. 923-934, 2013.

Longer gaps in real-time conference calls benefits NNS understanding, but makes the conversation feel unnatural.

[2] N. Yamashita, A. Echenique, E. Kuzuoka, T. Ishida, A. Hautasaari, "A Method that Ease the Burden of Non-native Speaker's Participation in Conference Calls," *IPSJ Transaction*, 2013 (to appear).

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