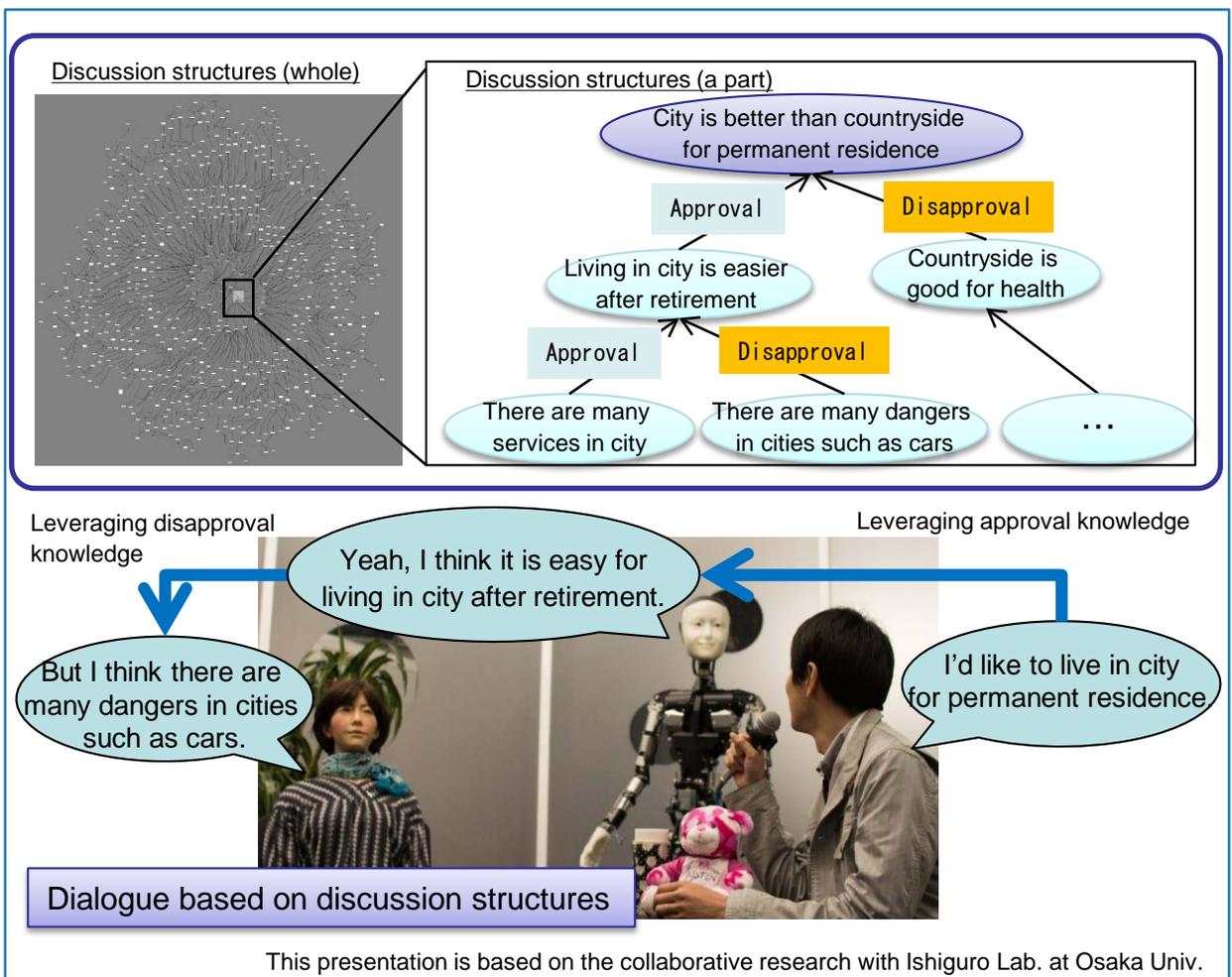


## Abstract

We have developed a dialogue system that can interact with people. In order to realize meaningful dialogues, it is important to **discuss specific subjects in depth** in addition to discussing diverse topics. Such discussion requires the system to explain the grounds for their arguments and present them against users' claims based on their consistent assertions. We designed **discussion structure for discussing specific topics**, and developed a **discussion dialogue technology** to manage discussion status and proceed discussion based on the structures. We aim to realize a society where **people and artificial systems can help each other** by understanding each other through discussions. This technology is also useful for improving the discussion skills of humans and revitalizing our thinking.



## Reference

- [1] H. Sugiyama, R. Higashinaka, T. Meguro, "Towards User-friendly Conversational Systems," *NTT Technical Review*, Vol. 14, No. 11, pp. 28-32, 2016.
- [2] H. Sugiyama, T. Meguro, Y. Yoshikawa, J. Yamato, "Analysis of the effects of inter-robots coordination in conversational dialogue system," in *Proc. the 18th Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL)*, 2017 (under review).

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