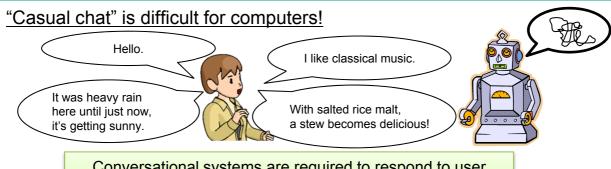


Let's chat with a computer!

~Dialogue system with various utterance generation methods~

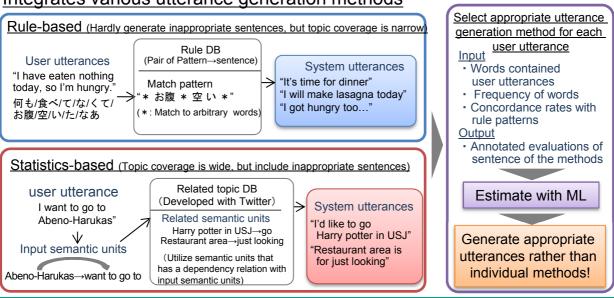
Abstract

Conversational systems are actively investigated recently, since they are effective not only counseling or entertainment purpose, but also improvement of performance in task-oriented dialogues. Our aim is to develop conversational system that can respond to any kind of topics. To realize appropriateness of utterances and wide range of topic coverage simultaneously, we propose an approach that integrates a rule-based utterance generation method and a statistical method that leverages web sentences to create utterances. Our proposed approach estimates appropriate methods based on concordance rates between user utterances and rules, or word frequencies in web-corpus. Our approach generated more appropriate utterances rather than individual methods.



Conversational systems are required to respond to user utterances with various topics.

Integrates various utterance generation methods



Related works

[1] H. Sugiyama, T. Meguro, R. Higashinaka, Y. Minami, "Open-domain utterance generation for conversational dialogue systems using web-scale dependency structures," in *Proc. SIGDIAL*, pp. 334-338, 2013.

[2] T. Meguro, H. Sugiyama, R. Higashinaka, Y. Minami, "Building a conversational system based on the fusion of rule-based and stochastic utterance generation," in *Proc. JSAI*, 2M5-OS-20b-2, 2014 (in Japanese).

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