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What does he/she think in this situation?

Sentiment text generation based on personality

Abstract

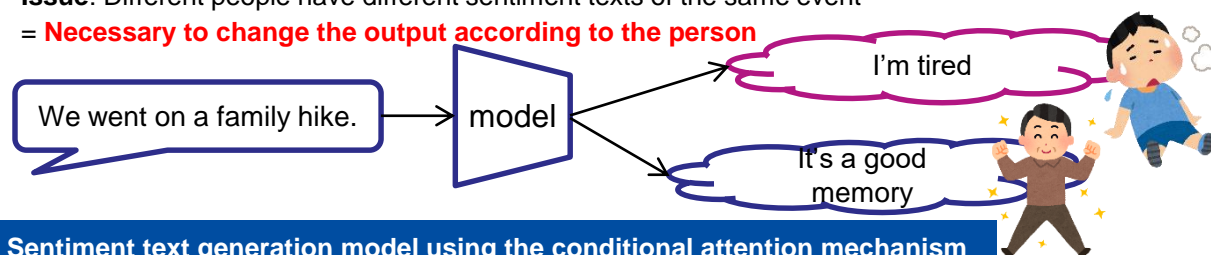
In order for a dialogue system to have a good relationship with humans, it is essential to understand and express human emotions. In previous studies, the expression of emotions has been done in typologies such as joy and anger. In contrast, this research will realize a dialogue system that can better understand and express human emotions by predicting the feelings associated with people like "what does he/she think this situation." This model takes "who" and "what they did" as input and estimates the output of "how they feel" according to a particular "person". This allows the dialogue system to use a more flexible way of expressing impressions, depending on the person. In the future, we will realize a method that learns "characteristics of the expression of impressions" from users in real time during the dialogue, and estimates the kind of person from the user's characteristics of the expression of impressions.

Sentiment text generation is a technique for estimating how he/she feels when an event occurs.

Previous works: Estimating whether the majority believes it positive or negative

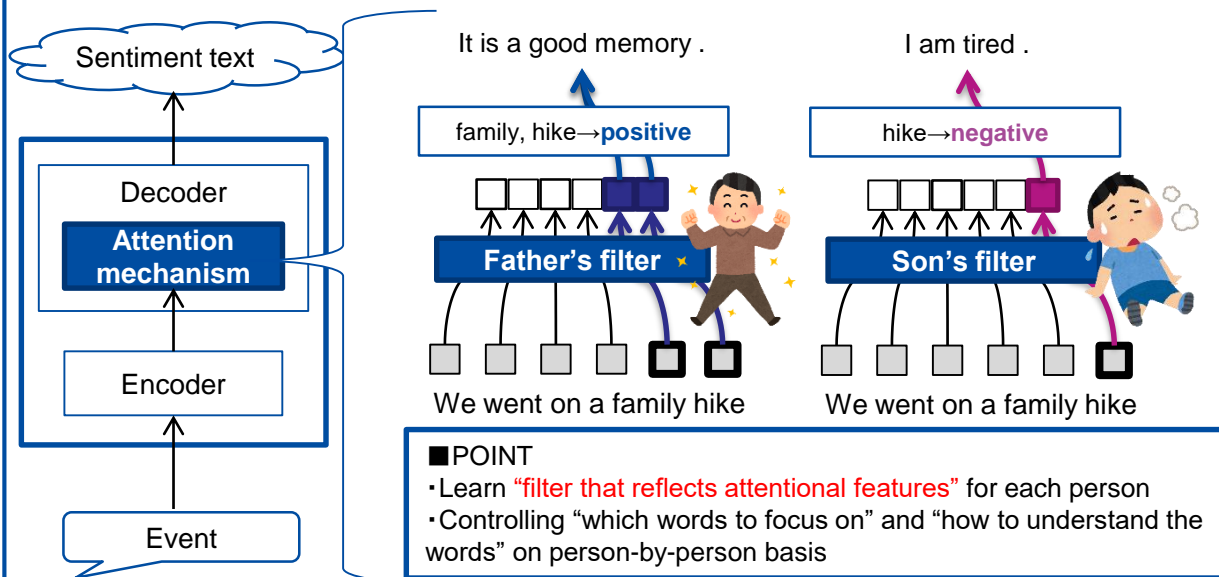
Issue: Different people have different sentiment texts of the same event

= **Necessary to change the output according to the person**



Sentiment text generation model using the conditional attention mechanism

We focus on the attention mechanism → Introduce a filter that reflects personality



References

- [1] M.Mizukami, H. Sugiyama, H. Narimatsu, "Event data collection for Recent Personal Questions," in *Proc. LACATODA*, 2018.
- [2] M.Mizukami, H. Sugiyama, H. Narimatsu, T. Arimoto, R. Higashinaka, "話者情報を考慮する注意機構を用いた応答生成手法の検討," *人工知能学会*, 2020.

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