



## Addressing The Speaker Consistency Issue in Conversational Agents

### Topic

One of the primary goals of AI is to develop a conversational agent with the capability of chatting with humans. An ideal dialog agent generates consistent responses to questions of its dialog partner through a conversation. However, recent data-driven dialog models severely suffer from the lack of speaker consistency: The agent generates inconsistent responses to similar questions. Here, we aim to devise a novel approach to endow dialog agents with a coherent personality during a conversation.

### Tasks

- Analyzing the personality of partners involved in dialog samples in a corpus
- Providing a novel data-driven model for a dialog agent with a coherent personality
- Improving the quality of the dialog agent responses considering the personality of the addressee



### References

- Jiwei Li et al. 2016. A Persona-Based Neural Conversation Model. In Proceedings of ACL16.
- Saizheng Zhang et al. 2018. Personalizing Dialogue Agents: I Have a Dog, Do You Have Pets Too?. In Proceedings of ACL18.
- Mazare' et al. 2018. Training Millions of Personalized Dialogue Agents. arXiv18.
- Chu et al. 2018. Learning Personas from Dialogue with Attentive Memory Networks. arXiv18

Analysis



Programming



Literature



### Contact

Prof. Dr. Iryna Gurevych

Mohsen Mesgar

[thesis@ukp.informatik.tu-darmstadt.de](mailto:thesis@ukp.informatik.tu-darmstadt.de)