

PhD, Post Doc

Improvement of translation quality of neural machine translation systems in cooperation with SAP

Motivation

Translating text in user interfaces (GUIs) of programs using neural machine translation often yields unsatisfactory performance because of the special properties of these texts. The same is true for dialog-based user interfaces (CUIs). Both scenarios are important within SAP for localization of their software.

Goal:

The goal of this project is to improve the translation quality of neural machine translation systems for this application by utilizing additional context. For this purpose, new techniques will be developed and tested on data collected by SAP.

Task:

- Literature research on the state of the art.
- Develop, train and test new machine translation architectures.
- Possible research directions include:
 - Multi-Modal Machine Translation
 - Document-Level Machine Translation
 - Output-Length constraints
 - Integration of partial translation memories

Qualifications:

- Basic knowledge of machine learning and neural networks.
- Experience with natural language processing is useful
- Speaking German is advantageous but not necessary.

Interested?

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