- Expert knowledge is vital for HQ assessment
- Document-specific terminology in MT is a disaster



SAO WMT19 Test Suite: Machine Translation of Audit Reports



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Introduction

Domain mismatch is often the main source of machine translation errors. At the same time, it has been suggested in the speech recognition area that models trained on extremely large data can perform well across domains, i.e. without any particular domain adaptation. This work describes a machine translation test set of documents from the auditing domain and its use as one of the "test suites" in the WMT19 News Translation Task for translation directions involving Czech, English and German.

Audit reports

Perhaps too soft, but anyway:

- translations seem fine for non-experts
- experts from Czech Supreme Audit Office (SAO) discussed at length which terms are acceptable translations
- → relying on reference translations make no sense
- → relying on evaluation by non-experts makes little sense

	en-cs	en-de	de-en
Documents	11	4	4
∑ MT systems	11	22	16
Doc. Segments Annotators	48	16	16
Annotators	5		1
Wrong translation	20	14	28
Fluency	25	1	0
Untranslated	5	3	7
_σ Abbreviations	6	4	4
Grammar	8	2	2
Missing words	4	0	2
Missing words Coherence	4	1	0
Added words	4	0	0
Word repetition	2	0	2
Spasm	1	0	0
Total	79	25	45
Avg. per Doc. Segm.	1.6	1.5	2.8

Evaluation: manually, scoring in categories:

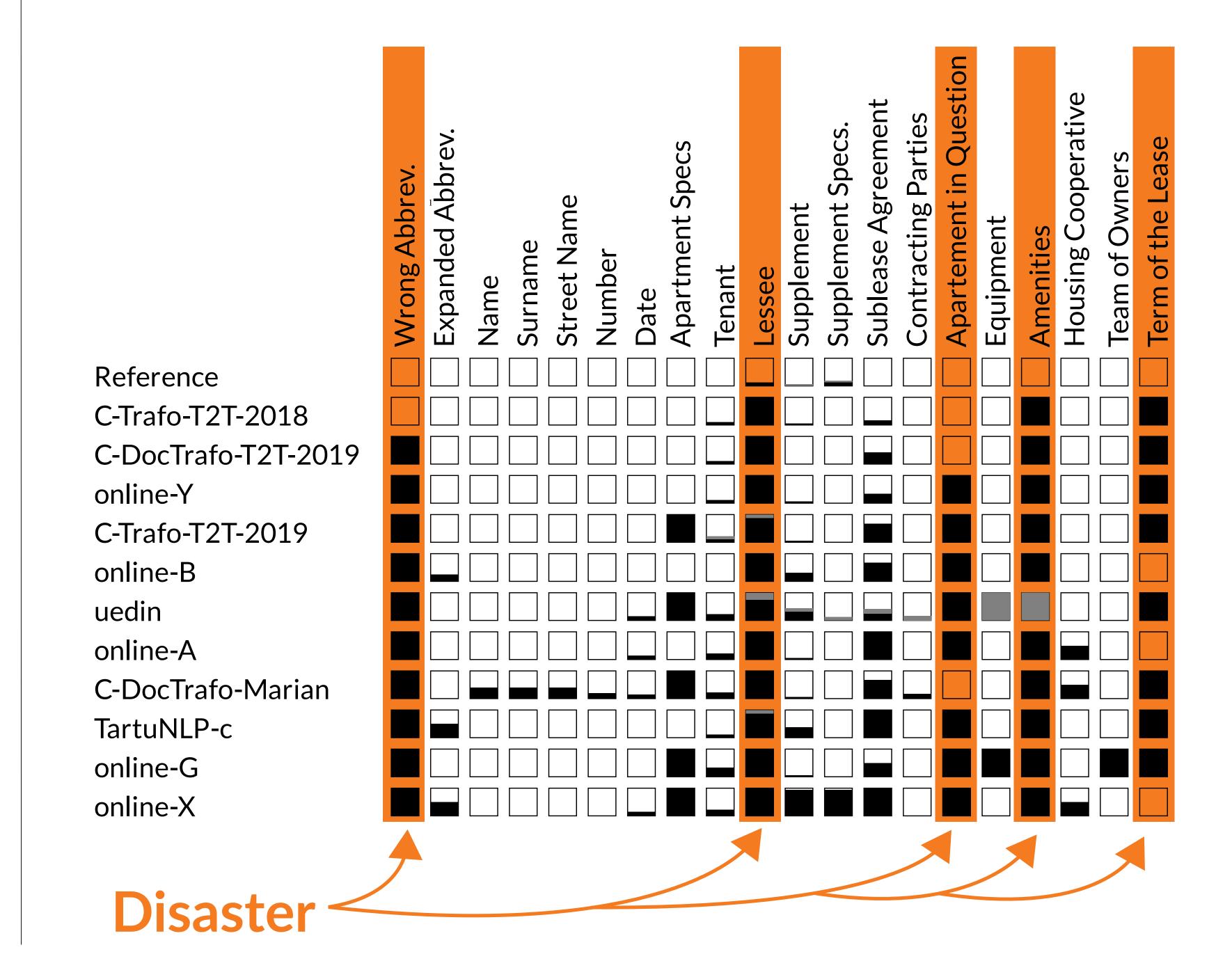
- 1. Language Resources Spelling and Morphology
- 2. Vocabulary Adequacy of Terms Used
- 3. Vocabulary Clarity of the Text in Terms of Used Words
- 4. Syntax and Word Order
- 5. Coherence and Overall Understanding of the Text

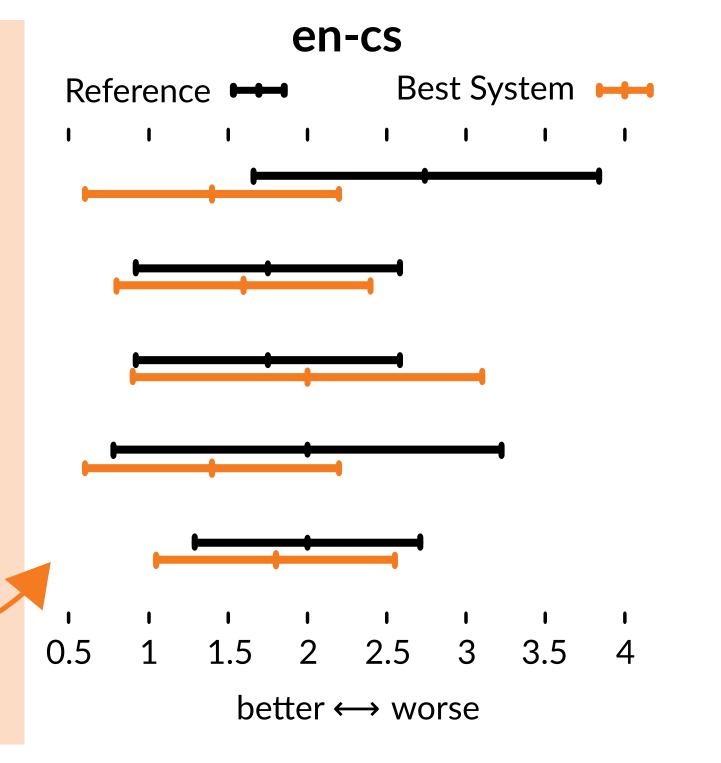
plotted as average rank for better comparibility

Sublease agreement

Evaluation: manually, error labeling in categories:

- 1. Target-only (e.g. grammar, fluency, spasm)
- 2. Source-based (e.g. named entities, doc-spec. terms)





Conclusions

- Audit reports evaluation by means of reference translation or non-expert assessment appeared to be useless
- Agreements even the best systems completely fail in preserving the semantics of the agreement, namely the identity of the parties ("tenant" and "lessee")
- SAO Test Suite available at GitHub:

https://github.com/ELITR/wmt19-elitr-testsuite





