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Building an English-Iraqi Arabic Machine Translation System for Spoken Utterances with Limited Resources

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This paper presents an English-Iraqi Arabic speech-to-speech statistical machine translation system using limited resources. In it, we explore the constraints involved, how we endeavored to mitigate such problems as a non-standard orthography and a highly inflected grammar, and discuss leveraging existing plentiful resources for Modern Standard Arabic to assist in this task. These combined techniques yield a reduction in unknown words at translation time by over 40% and a +3.65 increase in BLEU score over a previous state-of-the-art system using the same parallel training corpus of spoken utterances.

Full Paper

<u>Bibliographic reference.</u> Riesa, Jason / Mohit, Behrang / Knight, Kevin / Marcu, Daniel (2006): "Building an English-iraqi Arabic machine translation system for spoken utterances with limited resources", In *INTERSPEECH-2006*, paper 2012-Tue1A1O.1.

1 of 1 23/06/2010 10:44