Correcting Language Errors using Machine Translation Techniques

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Abstract

Grammatical error correction (GEC) tools play an important role in helping second language learning and providing assistance to non-native writers. Currently, the leading approach to GEC is the machine translation approach, in which potentially erroneous sentences are "translated" into fluent well-formed sentences. This talk will introduce various machine translation techniques that have been successfully applied and adapted to GEC, such as word and character-level statistical machine translation, neural network joint models, and neural encoder-decoder approaches.