A few researches do take into account the translation direction of a parallel corpus and analyses the influences it can have. E.g. (Ozdowska 2009) discusses the implications of translation directions used in training language and translation models for SMT. In the field of contrastive analysis, recent studies on large corpora tend to incorporate the directionality of a corpus (like in Johansson 2006), revealing sometimes important discrepancies between analyses performed on translated or original text (and their counterpart) like in (Degand 2005). Making use of multilingual parallel corpora in linguistic investigation would consequently require methodological precaution and some pre-processing.

In this work, we introduce the notion of directional corpora, as parallel corpora where the source language (i.e. the language in which the text and/or speech has been produced) is clearly identified. We present an experiment that has been performed to extract directional corpora out of an existing parallel corpus (namely Europarl (Koehn 2005)). This specific multidirectional parallel corpus contains scarce information about the original language in which each statement was made, and simple extraction of existing language tags would gather only a small amount of directional data. The scarcity of the language information is uneven within the language pairs, so we automatically gathered all the tag information in all the file sets, mutually 'correcting' all the tags and discarding diverging information. Doing so, we significantly increased the unidirectional extraction in terms of number of words (e.g. from an English to French directional corpus of 5,609,994 English token, we result with a new directional corpus of 6’358’597 English token).

Extraction and correction techniques will be presented, together with experiments on specific linguistic phenomena (namely discourse markers) that have been performed on the extended directional corpora extracted in this study, which shows interesting discrepancies in the results in translated languages and in original languages. Further methodological issues are also addressed, such as the “translational origin” of the translated data: In multilingual corpora such as Europarl, while source language is clearly identified as the “original” and target language as the “translated”, there is no evidence that the target language has been directly translated from the source language, or through a pivot language. This aspect would require other methodological precautions.

References


Johansson, Stig. (2006), How well can well be translated? On the English discourse particle well and
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