Abstract

The availability of Sundanese-Indonesian parallel corpus are few in number. Parallel corpus is important and could be used as a training data source for machine translation system or natural language processing system. This work is trying to collect parallel sentences extracted from pairs of Wikipedia articles using interlanguage links facility. A bilingual lexicon and a series of filters based on word occurrence, sentence length and word overlap between sentences were used to collect parallel sentence by updating the bilingual lexicon using IBM Model 4 EM learner implemented in GIZA++ tool. GIZA++ was run on parallel sentence candidate which was generated in each iteration until the system reached convergence state. Manual evaluation result using human judgement shows that 79,5% of parallel corpus built by the system had proven to be parallel.

Keywords: parallel corpus, Wikipedia, bootstrapping, expectation maximization