

Design and Construction of a machine-tractable Japanese-Malay Lexicon

Francis Bond,^{*} Takefumi Yamazaki,[‡] Ruhaida Binti Sulong[‡] and Kentaro Ogura^{*}

^{*} NTT Communication Science Laboratories <{bond, ogura}@cslab.kecl.ntt.co.jp>

[‡] NTT MSC <{yamazaki, ruhaida}@nttmsc.com.my>

Abstract

We present a method for combining two bilingual lexicons to make a third, using one language as a pivot. In this case we combine a Japanese-English lexicon with a Malay-English lexicon, to produce a Japanese-Malay lexicon suitable for use in a machine translation system. Our method differs from previous methods in its use of semantic classes to rank translation equivalents: word pairs with compatible semantic classes are preferred to those with dissimilar classes. We have made a prototype lexicon of over 75,000 pairs, and are now in the process of removing inappropriate entries by hand.

1 Introduction

We present a method for combining two bilingual lexicons to make a third, using one language as a pivot. The aim of our research is to create a lexicon to be used in the machine translation systems ALT-J/M: the Automatic Language Translator — Japanese-to-Malay (Ogura *et al.* 1999). We take the Japanese-to-English lexicon used in the machine translation system ALT-J/E (Ikohara *et al.* 1991) and cross it with a Malay-English lexicon to produce a Japanese-Malay lexicon.

The ALT systems are semantic transfer systems, and rely on having nouns marked with appropriate semantic classes (from our ontology of roughly 3,000 classes). These semantic classes are then used to describe the selectional restrictions of predicate-frames.

Clearly different senses of the same noun can be differentiated because they will appear in different semantic classes, for example, 車 *kuruma* “*car*” (vehicle) vs 浴槽 *kyuzo* “*bath*” (furniture). We will refer to such clearly distinct senses as homonyms. In a machine translation system, homonyms can be translated correctly if they have the correct semantic classes marked.

Finer grained variations, such as the difference between *dove* and *pigeon* (both 鳩 *toto* in Japanese) are harder to distinguish using semantic classes. Instead, collocation and usage information is necessary. Various methods exist to distinguish between such variants in machine translation, including the use of domain information, noun-modifier collocation, *n*-grams and other statistical information. The full-back method for distinguishing between similar variants is frequency: which of a set of translation equivalents occurs most often. In our system, this is implemented as a preference value: if the semantic classes are the same, in the absence of other restrictions, choose the translation candidate with the highest preference.

For example *dove* and *pigeon* are both potential translations of Japanese 鳩 *toto*, with the same basic

meaning.¹ In the absence of other information, ALT-J/E will always translate 鳩 *toto* as *pigeon* because it is the preferred translation.

When translating, it is essential to distinguish between homonyms, in order to faithfully convey the sense of a text. It is less important to distinguish between variations, and indeed often impossible: different languages make different distinctions. Because of this, when building our lexicon, it is essential to distinguish homonyms correctly, and our method aims to do this.

1.1 Previous work

Yamada and Umemura (1994) and Yamada *et al.* (1998) used English as an intermediate language to link Japanese and French. Their method relies on inverse consultation. To find suitable equivalents for a given Japanese word, they first look up its English translations, and then the French translations of these English translations, giving a set of French equivalence candidates (ECs) of the original Japanese. For each French word, they then look up all of its English translations, and see how many match the English translations of the original Japanese word. The more matches there are, the better the candidate is. They call this “one time inverse consultation”. This can be extended further, by looking up all the Japanese translations of all the English translations of a given French word and seeing how many times the Japanese word appears; this is “two times inverse consultation”.

Matching published Japanese-English and English-French dictionaries against each other, Yamada *et al.* (1998) were able to find translation equivalents not found in equivalent Japanese-French

¹*Pigeon*: “wild and domesticated birds having a heavy body and short legs”; *dove*: “any of numerous small pigeons” (Webster 1997).

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