It is impossible





to **convert** the contents in the ancient language into only their equivalents in the



They include something else!

modern language.



Visualisation

An Analysis of the Differences Between Classical and Contemporary Poetic Vocabulary of the Kokinshū Subtraction: CT - OP $\underline{\underline{Mathematical\ modelling}}$ Meta-code conversion Corpus development

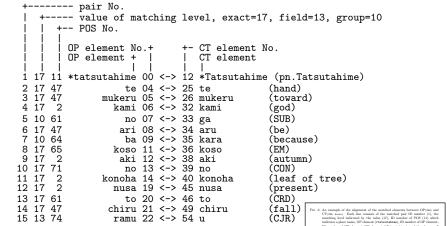
Hilofumi Yamamoto, Tokyo Institute of Technology Bor Hodošček, Osaka University

Introduction

Are the original poems really equivalent with contemporary translations? Can we trust the interpretations?

Methods

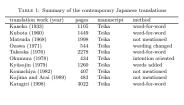
- 1) 1000 poems in the Kokinshū (ca. 905)
- 2) 10 sets of the translations (CT)
- 3) ALIGN 10,000 pairs (1,000 poems with 10 sets)



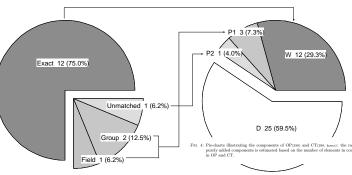
49 chiru

Fig. 1: Flowchart of data processing

Result



| * 74 | koma): it indicates the ratio of the ingredien | |
|------|--|--------------|
| OP | (valid number of element) | = 16 |
| Ε | (ratio of exact match) | 12/16 = 0.78 |
| F | (ratio of field match) | 1/16 = 0.06 |
| G | (ratio of group match) | 2/16 = 0.12 |
| T | (ratio of total match) | 15/16 = 0.93 |
| U | (ratio of unmatched OP) | 1 - T = 0.00 |



OP₂₉₈): 16 elements CT_(298,koma): 41 elements

Katagiri Kojima Ara Komachiya Kubota 0.42 (0.08) 0.39 (0.09) 0.41 (0.08)

| CT | (valid number of element) | | = | 41 | |
|----|--|---------------------|---|-------|---------|
| W | (ratio of original word use) | 12/41 | = | 0.293 | (E/CT) |
| A | (ratio of annotation)breakdown of the annotati | 1-0.293 | - | 0.707 | (1-W) |
| | P1(ratio of FG paraphrased) | (0.62+0.12)/0.707 | = | 0.073 | (F+G)/A |
| | P2(ratio of U paraphrased) | (0.707-0.073)*0.062 | = | 0.040 | (A-P1)* |
| | D (ratio of purely added) | 0.707-(0.073+0.040) | = | 0.595 | A-(P1+P |
| Н | (theoretical value of D) | 1-16/41 | = | 0.610 | 1-0P/CT |
| | | | | | |