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Abstract
There are various Verbal Suffix-Repetition (VSR) constructions in Korean, where suffixes such as -kena/ tun(ci)/ tun(ka) are attached to the repeated verbs. Calling the VSR Choice-denying Repeated Verbs construction, Lee (2011) claims that the following verb of the VSR, which can be replaced with mal-, should contain a negative but the preceding verb should be affirmative in the VSR construction which disallows any NPI within it. Unlike Lee (2011), we claim that the verbs in the VSR can freely occur either in the preceding position or in the following one regardless of their Neg value so long as they share the same verbal suffix forms such as -tun(ka). Furthermore, NPIs may occur within the VSR construction if they occur with a negative predicate within the same clause. To implement the findings above into HPSG, we have proposed the two lexical entries for mal-, the VSR Construction Rule, and the NPI Clause-mate Constraint. These tools enable us to account for the idiosyncratic properties of the VSR constructions under this constraint- and construction-based approach.

1 Introduction

There are so-called “Verbal Suffix-Repetition (VSR)” constructions in Korean, where verbs in a CP functioning as a complement share the same suffixes such as -kena/-tun(ci)/-tun(ka), as follows:

(1) [Marcia -ka kyelhon-ul ha-tun an-ha-tun],
M-Nom marry-Acc do-Suf Neg-do-Suf,
na-nun kwansim-epse.
I-Top care-Neg
‘Whether Marcia marries or not, I don’t care.’

Recently, Lee (2011) calls the VSR Choice-denying Repeated-Verbs (CRV) Construction in the sense that it semantically delivers choice-denying messages. In addition to the semantic properties of the CRV, he claims that the preceding verb in the repeated verbs of the VSR should be affirmative but the following one, negative, assuming that sentence (2) where the preceding verb with a negative precedes an affirmative verb, an-ha-tun ha-tun, is ungrammatical. Further, he suggests that the following verb can be replaced with mal- in terms of either the operation ‘copy & delete’ or ‘substitution’ as in (2).
In doing so, he argues that any NPI (Negative Polarity Item) cannot occur within the VSR CP on the basis of the fact that (3) is ungrammatical:

(3) *[Ney-ka amwuto manna-tunka an-manna-tunka / mal-tunka],
You-Nom none (NPI) meet-Suf Neg-meet-Suf / not do-Suf
‘Whether you meet none or not’

However, the fact that sentences like (4) where the VSR, exhibiting the reverse sequence, namely negative verb + affirmative verb, contains an NPI within the clause are construed to be grammatical seems to be a puzzle to Lee (2011):

(4) [Ku phathi-eey amwuto an-o-tunc mal-tunci]
The party-Loc none Neg-come-Suf stop-Suf
‘Whether no one comes to the party or not’

Unlike Lee (2011), we claim here that the verbs in the VSR can freely occur either in the preceding position or in the following one regardless of their Neg value so long as they share the same verbal suffix form. Further, NPIs such as amwuto may occur within the VSR construction if they occur with a predicate containing a negative within the same clause.

To support our claim, we provide various properties of the VSR construction especially as to the possibilities of the occurrence of the verbs in the construction with respect to the value of Neg, the characteristics of mal- and the distributional behaviors of NPIs in the VSR in Section 2. We propose a constraint- and construction-based analysis of the VSR construction and then demonstrate how it works in Section 3. In conclusion, we suggest the consequences of our theory.¹

¹ The full version of this paper has been published in Cho & Ku (2012). We thank the audience in the HPSG 2012 conference for their questions and comments.
2 Properties of the VSR Construction
2.1 The Possible Verb Sequences in the VSR

Logically, the verb sequences in the VSR construction, schematized as \( CP[\ldots V+\alpha V+\alpha] \), can be realized in four ways with respect to the existence of a negative as follows:

(5) a. Pattern I: \( CP[\text{affirmative } V+\alpha \text{ affirmative } V+\alpha] \)
    b. Pattern II: \( CP[\text{affirmative } V+\alpha \text{ negative } V+\alpha] \)
    c. Pattern III: \( CP[\text{negative } V+\alpha \text{ affirmative } V+\alpha] \)
    d. Pattern IV: \( CP[\text{negative } V+\alpha \text{ negative } V+\alpha] \)
    (Where \( \alpha \) stands for the suffixes such as -kena/-tun(ci)/-tun(ka))

Pattern I is basically possible unless the repeated verbs are identical. If the following repeated verb is the exact same morphological form of the preceding verb, it will be ill-formed as in (6).

(6) [Tangsin-i pap-ul mek-tun capsusi-tun/ *mek-tun],
    You-Nom rice-Acc eat-Suf eat-HON-Suf eat-Suf
    ‘Whether you eat rice or not’

As for Pattern II, as Lee (2011) has argued, there is no discrepancy, in grammaticality at least, on this pattern. Against Lee’s claim, however, we can find sentences like (7) belonging to the Pattern III and sentences like (8) belonging to the Pattern IV in the Korean Corpus data, Hanmaru Search Engine of 21 Sejong Project, which means they are grammatical.

(7) [An-pwa-essten mwunecy i-tun pwa-essten mwunecy i-tun],
    Neg-sa problem be-Suf saw problem be-Suf
    ‘Whether you have seen this question or not’ (6CM00002)

(8) [An-hanunke-ten mos-hanunke-ten],
    Neg-do-Suf Neg–can do-Suf
    ‘Whether he doesn’t want to do it or can’t do it’ (6CM00054)

Throughout the observations, the four sequence patterns in the VSR construction exhibit the following properties:
Properties of the VSR construction on Verb-Sequence Patterns

A. The verbs in the VSR can freely occur either in the preceding position or in the following one regardless of their Neg value so long as they share the same verbal suffix form.

B. When affirmative verbs repeat, they should have different morphological forms.

C. When negative verbs repeat, negative affixes should be different.

2.2 The Characteristics of Mal- and the Distributional Behaviors of NPIs in the VSR

As for the verb mal-, Lee (2011) suggests that mal- can be realized either by the operation “copy & delete” or by substituting the repeated verb in the VSR. The process, copy & delete, however, appears to face difficulties deriving mal-tunci because input strings like *yeyppuci-mal-tunci ‘pretty-not-Suf’ are ill-formed. Similarly, the substitution operation to get mal- in the VSR also seems to undergo difficulties deciding the counterpart input. For example, it is unclear how the string, an-ka-tunka mal-tunka ‘not go or not not go’, can be derived under this operation.

Throughout the reviewing of the demerits of the two approaches to mal-, we conclude that there are at least two different ‘mal-’s in Korean: one is the AUX, i.e. mal-1, and the other is the non-AUX in the VSR, i.e. mal-2. The characteristics of the mal-s are summarized as follows:

<table>
<thead>
<tr>
<th>Form</th>
<th>Meaning</th>
</tr>
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<tbody>
<tr>
<td>Mal- 1 V-ci malta [+Neg]</td>
<td>to stop or deny the event referred to by the preceding verb</td>
</tr>
<tr>
<td>Mal- 2 V-α mal-α [β Neg][β Neg]</td>
<td>to refer to all the events except for that referred to by the preceding verb</td>
</tr>
</tbody>
</table>

(Where α stands for suffixes such as -tunci and β, the Neg value.)
As shown in (10), unlike Lee (2011), the \textit{mal}-2 in the VSR semantically does not deliver the message of denying the event referred to by the preceding verb. Rather, it refers to all the events except for that referred to by the preceding verb. Thus, we conclude that the meaning of the VSR essentially is the list of events referred to by the repeated verbs in the construction.

According to Lee (2011), the NPI, \textit{amwuto}, cannot appear with an affirmative verb so that both examples belonging to Pattern I and II are predicted to be ungrammatical. However, the fact that the Pattern III and IV, in which the preceding verb contains a negative, are possible cannot be explained under his analysis, since he regards such patterns as ill-formed.

We propose that the preceding verb and the following one of the VSR may have a bi-clausal structure or constitute a syntactic compound while the preceding verb and the \textit{mal}-2 constitutes a syntactic compound only. If this proposal is adopted, (4) is correctly predicted to be grammatical because the preceding negative verb and \textit{mal}-2 constitute a syntactic compound so that the NPI and the negative verb co-occur within a clause, resulting in the observing of the Clause-mate Constraint.

3 A Constraint- and Construction-based Analysis

To implement such observations into current HPSG, we postulate a construction rule for the VSR and a few lexical constraints on \textit{mal}-, assuming the Clause-mate constraint to treat the distributional behaviors of NPIs. First, we posit the following lexical entries for \textit{mal}-:

\begin{verbatim}
(11)  \textit{mal}-1:

\end{verbatim}
Assuming the Clause-mate constraint in (13) to deal with NPIs, we postulate the “VSR construction” rule in (14) which enables us to obtain not only a bi-clausal structure but also a syntactic compound depending on whether each node V is realized as a lexical verb or a CP:

(13) The Clause-mate Constraint (Informal Version):

NPIs must occur with a verb with [NEG +] within a clause.

(14) The VSR Construction Rule (A Syntactic Compound Rule)²:

\[ V[\text{HEAD} V\text{FORM }\alpha, V\text{FORM }\beta] \rightarrow V[\text{HEAD} V\text{FORM }\alpha, \text{NEG }\beta, \text{MORPH STEM }\gamma] \rightarrow V[\text{HEAD} V\text{FORM }\alpha, \text{NEG }\beta, \text{MORPH STEM }\delta] \]

(Where \( \alpha \in \{-k\text{ena}, -\text{tun}(ci), \text{tun}(ka)\} \))

Once these tools are adopted in HPSG, the properties of the VSR construction can be sufficiently accounted for. To show this is so, we demonstrate how our theory analyzes the VSR construction with an NPI in a clause.

² As mentioned in the note 2, the semantic contrast or salient factors can be specified in the two daughters in the SEM part, instead of specifying two different STEM values in the MORPH. The notion / in front of \( \square \) refers to ‘default’ value.
The strings like *amwuto an-o-tunci mal-tunci* as the second type of the Pattern III with an NPI can be represented as follows:

\[(15)\]

![Diagram of syntactic structure]

The strings, *amwuto an-o-tunci mal-tunci*, are possible under this analysis. The local tree in the bottom part is licensed as a syntactic compound in terms of the VSR rule and the lexical information of *mal-2*. Since the NEG value of the mother in the local tree is positive (+), the NPI in the top local tree of the clause satisfies the Clause-mate Constraint. Hence, the strings are well-formed. In addition to the syntactic parts, the semantic RELN (relation) of *mal-tunci* in (15) is *be-listed* and its ARG (argument) is all situations (events) except the situation referred to by the preceding verb *an-o-tunci*, i.e. \(\forall S \& \neg S_1\).

The last example we demonstrate is the strings like *amwuto an-o-tunci mos-o-tunci* as one of Pattern IV examples with an NPI which can be represented as follows:
When the NPI occurs with the two negative verbs in a bi-clausal structure, the strings are predicted to be well-formed because the NEG value of each verb is positive so that they can observe the Clause-mate Constraint. In a syntactic compound, the strings are also regarded as legal since both negative verbs share the same NEG value, +.

4 Conclusion

There are various Verbal Suffix-Repetition constructions in Korean, where suffixes such as -kena/ tun(ci)/ tun(ka) are attached to the verbs. Functionally, this construction may appear either as an adjunct or as a CP complement headed by verbs like kwansimeps- ‘don’t care’. To account for the latter type of VSR construction, which is called CRV construction, Lee (2011) claims that the CRV behaves differently from the VSR construction functioning as an adjunct in that the CRV only allows Pattern II, which disallows any NPI within it.

Unlike Lee (2011), we claim that the verbs in the VSR can freely occur either in the preceding position or in the following one regardless of their NEG value so long as they share the same verbal suffix forms such as –tun(ka). Furthermore, NPIs may occur within the VSR construction if they...
occur with a negative within the same clause. To support our claim, we have provided various properties of the VSR construction especially as to the possibilities of the occurrence of the verbs in the construction with respect to the Neg value, the characteristics of mal- and the distributional behaviors of NPIs in the VSR. In doing so, we could observe the idiosyncratic properties of the VSR construction on verb-sequence patterns in (9), two different types of the verb mal- in (15), and the distributional behaviors of NPIs with respect to the VSR patterns in (7). On the basis of the observations, we have proposed the two lexical entries for mal- in (11) and (12), the VSR Construction Rule as a syntactic compound rule in (14), and the Clause-mate Constraint in (13) in current HPSG. We have shown that given these tools, the idiosyncratic properties of the VSR constructions are sufficiently accounted for under this constraint- and construction-based approach.

In fact, our analysis can be extended to analyze the VSR functioning as an adjunct without any additional tools. In conclusion, we suggest that the CRV should be merely a subtype of the VSR construction in Korean. We believe that the constraint- and construction-based analysis can be a desirable solution to give precise explanations for various complex constructions.

References


