




Dissertation  OPEN ACCESS

DISTRIBUTIONAL CORPUS ANALYSIS OF KOREAN NEOLOGISMS USING ARTIFICIAL INTELLIGENCE

Wonbin Kim


Doctor of Philosophy (PHD), University of Georgia;
12/2022

Abstract

 *artificial intelligence* / *collocation analysis* / *distributional corpus analysis* / *distributional frequency profiles* / *Korean neologisms* / *semantic change*

Distributional corpus analysis (DCA) is an approach which reveals lexical relations using large-scale corpora and computational techniques in natural language processing. It has an advantage of processing and analyzing lexical relations in a quantitative, consistent, and objective way. Although the DCA approach allows analysts to process large-scale linguistic data efficiently, there are few studies using the DCA approach to investigate language phenomena within corpus linguistics. Therefore, this study aims to bridge the gap between the DCA approach and corpus linguistics by designing and describing DCA from the perspective of corpus linguistics. Specifically, this study uses the DCA approach to analyze the distributional behaviors of three Korean neologisms *leyal*, *lwuce*, and *kay-* and track semantic change of the three neologisms. For the analysis of distributional behaviors, Korean Twitter data spanning about ten years is collected and three state-of-the-art techniques are employed. For *leyal*, *word2vec* and cosine similarity are used and for *lwuce*, Latent Dirichlet Allocation is employed. For *kay-*, long short-term memory is utilized. Regarding *kay-*, its connotational and attitudinal meaning is investigated. The results from DCA

Files and links

 PDF	Dissertation_Wonbin Kim Open Access	Download	View
--	---	--------------------------	----------------------

Metrics

 13 File views/ downloads  7 Record Views

Details

TITLE DISTRIBUTIONAL CORPUS ANALYSIS OF KOREAN NEOLOGISMS
USING ARTIFICIAL INTELLIGENCE

CREATORS Wonbin Kim

CONTRIBUTORS William A. Kretschmar (Advisor)
Linda Harklau (Committee Member)
Paula J. Mellom (Committee Member)

**AWARDING
INSTITUTION** University of Georgia; Doctor of Philosophy (PHD)

