

Quantifying Expressive Meaning: Developing Expressive Vectors Using Linguistic Theory, Word Embeddings, and Native Speaker Surveys

Authors : Saughmon Boujkian

Abstract : This study delves into the intricate interplay between semantics and emotional connotation in linguistic expression, focusing on the role of expressive adjectives (EAs). Through a blend of theoretical frameworks from linguistics and computational techniques from natural language processing, native speakers' judgments are curated to capture the nuanced interpretations elicited by EAs in diverse linguistic contexts. Leveraging mathematical tools like least squares analysis, the study translates qualitative linguistic phenomena into quantitative measures, unveiling the differential impact of EAs on sentence sentiment. The derived expressive vectors offer insights into the nature of expressive meaning, underscoring the complex dynamics inherent in linguistic expression. While the study's outcomes provide valuable insights, future research endeavors could explore more sophisticated linguistic models to enhance the accuracy and granularity of expressive vector representations.

Keywords : vectors, expressive meaning, multi-dimensionality, least squares regression

Conference Title : ICELL 2026 : International Conference on English Language and Linguistics

Conference Location : Vancouver, Canada

Conference Dates : September 23-24, 2026