

Abstract

This research examines the entanglement of speech and thought in entomology through a comprehensive analysis of Ento-Linguistic domains, investigating how language use in ant research creates ambiguity, assumptions, and inappropriate framing with significant implications for scientific communication. We develop a mixed-methodology framework combining computational text analysis with theoretical discourse examination to map terminology networks across six key domains: Unit of Individuality (ant vs. colony vs. nestmate), Behavior and Identity (foraging, caste, roles), Power & Labor (caste, queen, worker terminology), Sex & Reproduction (sex determination/differentiation concepts), Kin (relatedness, family structure), and Economics (resource allocation, trade). Building on foundational work in scientific discourse analysis [?, ?] and entomology [?, ?], our work makes several significant contributions: systematic mapping of Ento-Linguistic terminology networks revealing structural ambiguities; computational identification of context-dependent language use patterns; theoretical framework for understanding how terminology