

Formal Distributional Semantics: Introduction to the Special Issue

Gemma Boleda*
University of Trento

Aurélie Herbelot**
University of Trento

Formal Semantics and Distributional Semantics are two very influential semantic frameworks in Computational Linguistics. Formal Semantics is based on a symbolic tradition and centered around the inferential properties of language. Distributional Semantics is statistical and data-driven, and focuses on aspects of meaning related to descriptive content. The two frameworks are complementary in their strengths, and this has motivated interest in combining them into an overarching semantic framework: a “Formal Distributional Semantics.” Given the fundamentally different natures of the two paradigms, however, building an integrative framework poses significant theoretical and engineering challenges. The present issue of Computational Linguistics advances the state of the art in Formal Distributional Semantics; this introductory article explains the motivation behind it and summarizes the contributions of previous work on the topic, providing the necessary background for the articles that follow.

1. Introduction

The 1960s and 1970s saw pioneering work in formal and computational semantics: On the formal side, Montague was writing his seminal work on the treatment of quantifiers (Montague 1974) and on the computational side, Spärck-Jones and colleagues were developing vector-based representations of the lexicon (Spärck-Jones 1967). At the same time, Cognitive Science and Artificial Intelligence were theorizing in which ways natural language understanding—seen as a broad, all-encompassing task—might be modeled and tested (Schank 1972; Winograd 1972). The experiments performed back then, however, suffered from a lack of resources (both in terms of data and computing

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Table of Contents Formal Semantics An Introduction

1. Understanding the eBook Formal Semantics An Introduction
 - The Rise of Digital Reading Formal Semantics An Introduction
 - Advantages of eBooks Over Traditional Books
2. Identifying Formal Semantics An Introduction
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Formal Semantics An Introduction
 - User-Friendly Interface
4. Exploring eBook Recommendations from Formal Semantics An Introduction
 - Personalized Recommendations

- Formal Semantics An Introduction User Reviews and Ratings
- Formal Semantics An Introduction and Bestseller Lists
- 5. Accessing Formal Semantics An Introduction Free and Paid eBooks
 - Formal Semantics An Introduction Public Domain eBooks
 - Formal Semantics An Introduction eBook Subscription Services
 - Formal Semantics An Introduction Budget-Friendly Options
- 6. Navigating Formal Semantics An Introduction eBook Formats
 - ePub, PDF, MOBI, and More
 - Formal Semantics An Introduction Compatibility with Devices
 - Formal Semantics An Introduction Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Formal Semantics An Introduction
 - Highlighting and Note-Taking Formal Semantics An Introduction
 - Interactive Elements Formal Semantics An Introduction
- 8. Staying Engaged with Formal Semantics An Introduction
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Formal Semantics An Introduction
- 9. Balancing eBooks and Physical Books Formal Semantics An Introduction
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Formal Semantics An Introduction
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Formal Semantics An Introduction
 - Setting Reading Goals Formal Semantics An Introduction
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Formal Semantics An Introduction
 - Fact-Checking eBook Content of Formal Semantics An Introduction

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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