

# A Convolution Kernel Approach to Identifying Comparisons in Text

Maksim Tkachenko

School of Information Systems  
Singapore Management University  
maksim.tkatchenko@gmail.com

Hady W. Lauw

School of Information Systems  
Singapore Management University  
hadywlauw@smu.edu.sg

## Abstract

Comparisons in text, such as in online reviews, serve as useful decision aids. In this paper, we focus on the task of identifying whether a comparison exists between a specific pair of entity mentions in a sentence. This formulation is transformative, as previous work only seeks to determine whether a sentence is comparative, which is presumptuous in the event the sentence mentions multiple entities and is comparing only some, not all, of them. Our approach leverages not only lexical features such as salient words, but also structural features expressing the relationships among words and entity mentions. To model these features seamlessly, we rely on a dependency tree representation, and investigate the applicability of a series of tree kernels. This leads to the development of a new context-sensitive tree kernel: Skip-node Kernel (SNK). We further describe both its exact and approximate computations. Through experiments on real-life datasets, we evaluate the effectiveness of our kernel-based approach for comparison identification, as well as the utility of SNK and its approximations.

## 1 Introduction

When weighing various alternatives, users increasingly turn to the social media, by scouring online reviews, discussion forums, etc. Our goal is to extract from such corpora those text snippets where users make direct comparisons of entities. While sentiment analysis (Pang and Lee, 2008) may be helpful in evaluating individual entities, comparison by the same author within a sentence provides an unambiguous and more equitable basis for the relative positions of two entities on some aspect. For example, the sentence  $s_1$

in Table 1, taken from an Amazon review about a digital camera, makes two distinct comparisons: #1) between “A630” and “A-series cameras” and #2) between “A630” and “its competition”, with a clear sense of which entity mention is the *greater* on some aspect (“larger”). Moreover, comparisons may be objective (e.g., larger) or subjective (e.g., better), while sentiments are primarily subjective.

**Problem** Given a sentence and a specific pair of entity mentions, we seek to determine if a comparison exists between those two mentions. In previous work, the problem was formulated as identifying *comparative sentences*, i.e., those containing at least one comparison (Jindal and Liu, 2006a). This is not ideal because a sentence may contain more than two entity mentions, and may be comparing only some of them. For instance,  $s_1$  is comparative with respect to the pair (A630, A-series cameras) and the pair (A630, its competition), but not the pair (A-series cameras, its competition).

We therefore postulate that the more appropriate formulation is *comparisons within sentences*. If a sentence compares two entities (A, B) with respect to some aspect Z, it should be possible to reformulate it into another sentence such as: “A is better than B with respect to Z” (Kessler and Kuhn, 2014a). Based on this definition, there is no comparison between (A-series cameras, its competition) in  $s_1$ . Here, we adopt this apt definition with a slight restriction to make it more practical, and seek to identify such comparisons automatically. We consider only sentences with at least two entity mentions involved in gradable comparisons, i.e., a clear sense of scaling in the comparison (e.g., A is better than B.). Such comparisons are more useful in investigating the pros and cons of entities, as opposed to equative comparisons expressing parity between two mentions (e.g., A is as good as B.), or superlative comparisons expressing the primacy of an entity with respect to unknown reference entities (e.g., A is the best.).

# A Convolution Kernel Approach To Identifying Comparisons

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## **Table of Contents A Convolution Kernel Approach To Identifying Comparisons**

1. Understanding the eBook A Convolution Kernel Approach To Identifying Comparisons
  - The Rise of Digital Reading A Convolution Kernel Approach To Identifying Comparisons
  - Advantages of eBooks Over Traditional Books
2. Identifying A Convolution Kernel Approach To Identifying Comparisons
  - 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 A Convolution Kernel Approach To Identifying Comparisons
  - User-Friendly Interface
4. Exploring eBook Recommendations from A Convolution Kernel Approach To Identifying Comparisons
  - Personalized Recommendations
  - A Convolution Kernel Approach To Identifying Comparisons User Reviews and Ratings
  - A Convolution Kernel Approach To Identifying Comparisons and Bestseller Lists
5. Accessing A Convolution Kernel Approach To Identifying Comparisons Free and Paid eBooks
  - A Convolution Kernel Approach To Identifying Comparisons Public Domain eBooks
  - A Convolution Kernel Approach To Identifying Comparisons eBook Subscription Services
  - A Convolution Kernel Approach To Identifying Comparisons Budget-Friendly Options
6. Navigating A Convolution Kernel Approach To Identifying Comparisons eBook Formats

- ePub, PDF, MOBI, and More
  - A Convolution Kernel Approach To Identifying Comparisons Compatibility with Devices
  - A Convolution Kernel Approach To Identifying Comparisons Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of A Convolution Kernel Approach To Identifying Comparisons
    - Highlighting and Note-Taking A Convolution Kernel Approach To Identifying Comparisons
    - Interactive Elements A Convolution Kernel Approach To Identifying Comparisons
  8. Staying Engaged with A Convolution Kernel Approach To Identifying Comparisons
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers A Convolution Kernel Approach To Identifying Comparisons
  9. Balancing eBooks and Physical Books A Convolution Kernel Approach To Identifying Comparisons
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection A Convolution Kernel Approach To Identifying Comparisons
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine A Convolution Kernel Approach To Identifying Comparisons
    - Setting Reading Goals A Convolution Kernel Approach To Identifying Comparisons
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of A Convolution Kernel Approach To Identifying Comparisons
    - Fact-Checking eBook Content of A Convolution Kernel Approach To Identifying Comparisons
    - 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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