

Recommendation system for Wikipedia Gaze Based Personalized Summaries

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Abstract

Due to its complex collaborative structure and huge success, Wikipedia has been vastly analyzed from various perspectives. As a result, now we decently understand the overall nature of Wikipedia editors' collaboration dynamics and various features of its articles. But a little research has been performed to understand readers' perspective of Wikipedia. In this paper, we propose a novel approach to analyze how a reader refers Wikipedia articles. This is attained by capturing the reading pattern of readers. We implement a state-of-the-art method to generate personalized summaries of Wikipedia articles through eye gaze tracking of a reader. These summaries capture reader's attention pattern. Summaries thus generated are gathered and analyzed for evaluation of different features of Wikipedia from readers' perspective. Using the proposed method, we develop a cross-platform document summarization and analysis tool. The experimental results show the efficiency of our personalized summary generation approach and the proposed analysis method of Wikipedia articles also show some interesting results.

1 Introduction

1.1 Recommendation system

papers:

- The YouTube Video Recommendation System
- Collaborative filtering and deep learning based recommendation system for cold start items

- Automated web usage data mining and recommendation system using K-Nearest Neighbor (KNN) classification method
- A personalized movie recommendation system based on collaborative filtering
- Content-Based Video Recommendation System Based on Stylistic Visual Features
- A Recommendation System Based on Hierarchical Clustering of an Article-Level Citation Network
- Use of Deep Learning in Modern Recommendation System: A Summary of Recent Works
- Science Concierge: A Fast Content-Based Recommendation System for Scientific Publications
- Growing Wikipedia Across Languages via Recommendation
- Evaluating Link-based Recommendations for Wikipedia

[1] authors gain reputation when the edits and text additions they perform to Wikipedia articles are longlived, and they lose reputation when their changes are

2 Online Resources

3 Discussion

4 Conclusion & Future Work

References

- [1] B. T. Adler and L. De Alfaro, “A content-driven reputation system for the wikipedia,” in *Proceedings of the 16th international conference on World Wide Web*, pp. 261–270, ACM, 2007.

A Research Methods

A.1 Part One

A.2 Part Two

B Online Resources

C Words

“averted” means tiled away