(temp) Using Word Embedding for Citation Recommandation in FinTech Scientific Articles

by Ting-Chun Chen, BSc

Submitted to The University of Nottingham September 2023 in partial fulfilment of the conditions for the award of the degree of Master of Science in Data Science

I declare that this dissertation is all my own work, except as indicated in the text

Contents

1	Introduction		1
	1.1 About	Citation	1
\mathbf{R}	eferences		3
\mathbf{A}	ppendix A	Supplementary Materials I	4
\mathbf{A}	ppendix B	Supplementary Materials II	5

Abstract

According to the guidelines the abstract should not exceed 300 words. However, it is unlikely that anyone will be counting when you submit. If you still wish to do so, then better use Emacs count-words command.

${\bf Acknowledgements}$

It is good to thank here your supervisors and any sponsoring bodies, as well as any family, friends, cats, dogs etc. that have been supportive during your time at University.

Chapter 1

Introduction

If it helps the organisation of your thesis, then you can keep each chapter in a separate file, and then bring them into the main file using \input commands.

Sample text sample text.

1.1 About Citation

Citations are used to demostrate research background, existed techniques and evidences for a statement, playing an critical role in scientific writing. Authors can properly acknowledgement the source of information of a statement and avoid plagiarism with an accurate citation. It also serves as a verification that the idea of this statements is provided and supported by previous studies. In these days, references and citations also include additional informations for search engine and citation recommendation systems to recognise the subfields and similar researches of this article.

There has been a noticeable increase in the number of scientific articles being published. There are 3.8 million scientific articles being published in 2022, according to Web of Science database. It is to expect that there would be more scientific articles avaliable on the internet. It can be harder for academics to obsorb all the new perspectives with their exact sources.

When looking for reference papers, keywords are commonly used in most academic databases and search engines. Authors would then review the reslut papers from search engine to evaluate its relavence to our research and reliability. It could cost a huge amount



FIGURE 1.1: You can use includegraphics command with the graphicx style option to add images.

of time and effort to go through full papers, not to mention that the academic database and search emgine might miss some relavence papers.

Some academic databases come with citation recommendation tools, which provide relavence articles that share a same category with or is similar to our research. Citation recommendation tools would have bias towards published journals, impact factors, times being refered to, and the avaliability of the journal if it's open to everyone or subscription-only.

1.1.1 Second Level Heading

Sample text sample text.

Third Level Headings Do Not Appear in the Table of Contents

Sample text sample

References

Lamport, L. (1994). $\slash\hspace{-0.6em}AT_{\!E\!X}: A\ document\ preparation\ system\ (Second\ ed.).$ Addison-Wesley.

APPENDIX A

Supplementary Materials I

Sample text sample text.

Appendix B

Supplementary Materials II

Sample text sample text.