

Modelling search volumes as a dynamic system responding to external events

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MInf Project (Part 1) Report

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Abstract

It is well known that some events could be easily correlated to spikes in flight booking data. Some news events, sports events and such can easily spark people's attention and make them search for flights to a specific destination (the Champions League Quarter final draw increased the number of flight searches for a specific route X times). The main goal of this project is to grab a few data sources (initially Twitter, possibly later the BBC news web-site) and extract all the events data there is. Also afterwards, we want to separate those events into two groups ? those who can trigger people to search for flights and those who don't. This will later be used to detect when people want to go somewhere based on the news channels around the world.

Acknowledgements

Acknowledgements go here.

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Chapter 1

Introduction

The document structure should include:

- The title page in the format used above.
- An optional acknowledgements page.
- The table of contents.
- The report text divided into chapters as appropriate.
- The bibliography.

Commands for generating the title page appear in the skeleton file and are self explanatory. The file also includes commands to choose your report type (project report, thesis or dissertation) and degree. These will be placed in the appropriate place in the title page.

The default behaviour of the documentclass is to produce documents typeset in 12 point. Regardless of the formatting system you use, it is recommended that you submit your thesis printed (or copied) double sided.

The report should be printed single-spaced. It should be 30 to 60 pages long, and preferably no shorter than 20 pages. Appendices are in addition to this and you should place detail here which may be too much or not strictly necessary when reading the relevant section.

1.1 Using Sections

Divide your chapters into sub-parts as appropriate.

1.2 Citations

Note that citations (like [?] or [?]) can be generated using BibTeX or by using the `thebibliography` environment. This makes sure that the table of contents includes an entry for the bibliography. Of course you may use any other method as well.

1.3 Options

There are various documentclass options, see the documentation. Here we are using an option (`bsc` or `minf`) to choose the degree type, plus:

- `frontabs` (recommended) to put the abstract on the front page;
- `twoside` (recommended) to format for two-sided printing, with each chapter starting on a right-hand page;
- `singlespacing` (required) for single-spaced formatting; and
- `parskip` (a matter of taste) which alters the paragraph formatting so that paragraphs are separated by a vertical space, and there is no indentation at the start of each paragraph.

Chapter 2

Data gathering and analysis

Of course you may want to use several chapters and much more text than here.