The Seldon Plan — A socioeconomic and anthropological analysis of long-term consequences of the current astropolitical policies across the Galactic Empire

Dr. Gaal Dornick, Dr. Yugo Amaryl, Prof. Dr. Hari Seldon

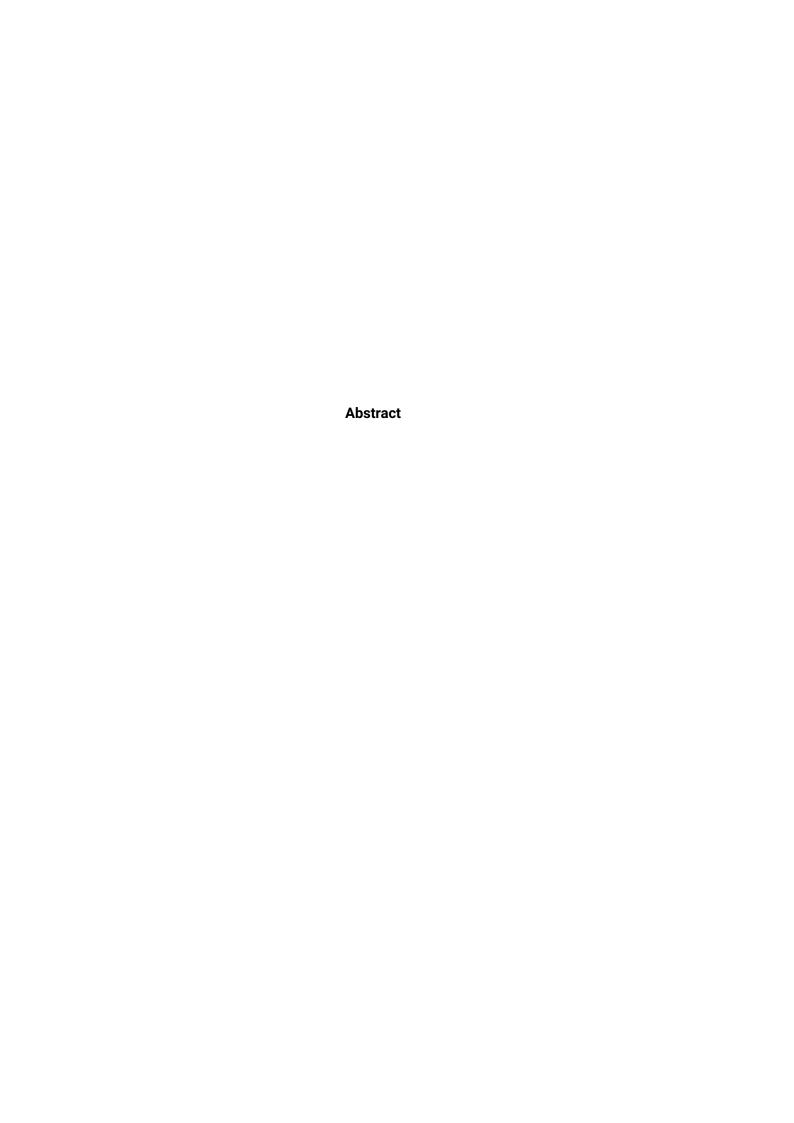
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Field of Study Psychohistory

**Topic** Statistical analysis of astropolitical policies

**Examiner** Prof. Dr. Hari Seldon



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# How to use this template

#### 1.1 Requirements and typesetting

This document is made to be compiled using X $\exists$ LATEX or LuaLATEX and LATEX  $2_{\varepsilon}$ . Do not compile it using pdflatex or very old LATEXversions, it will not work! The bibliography is generated with biblatex using the biber backend. If you work with the command line you need to execute the following commands:

```
$ xelatex Main.tex
$ biber Main.tex
$ xelatex Main.tex
```

Though this will generate a lot of auxiliary files everywhere so I recommend using cluttex instead:

```
$ cluttex -e xelatex --biber Main.tex
```

Which will run XHATEX (or LuaIATEX) the right number of times and produce just a single PDF, while storing the auxiliary files somewhere else in a temporary directory.

### 1.2 Directory structure

The structure of this template in the filesystem is as follows:

```
$ tree --charset ascii Thesis
Thesis
|-- Main.bib
|-- Main.pdf
|-- Main.tex
|-- appendix
|-- figures
| '-- galactic-empire.png
|-- parts
| |-- abstract.tex
| '-- howto.tex
'-- tex
| -- docmacros.sty
|-- hsrthesis.cls
'-- titlepage.tex
```

There are two files called Main that may be renamed to something more pertinent to your thesis, though note that the new name cannot contain spaces. The tex directory only contains the "code", that means styling, macros and other special sources such as the title page. The content of your thesis should be stored under the parts directory, Main.tex should not contain any text except for the title, date and the authors. You are free to split your text into however many files you like, though I recommend one file per chapter. The figures folder and appendix are rather self explanatory, they contain the figures and the content of the appendix respectively.

#### 1.3 The document macros file

In the style file tex/docmacros.sty there are a few help macros might be useful to electrical engineers. Feel free to look and tweak it to your liking. For now I have included:

- Probability operators  $\E\{X\} \Pr\{X\} \Var\{X\} \(E\{X\} \Pr\{X\} \Var\{X\})$ .
- Special functions  $\sinc \argmax \argmin (sinc arg max arg min)$ .
- Redefined the imaginary and real operator  $\Re\{z\} \Im\{z\} \Im\{z\} \Im\{z\}$  to look "normal", i.e. not with Fraktur font.
- Linear operators \laplace \fourier \hilbert  $(\mathcal{LFH})$ .
- Redefined vector notation \vec{u} (u) to use a bold font, and a new unit vector macro \uvec{u} (û).
- Bold notation for the dot product \dotp (·) and cross product \crossp (×), to distinguish them from \cdot (·) and \times (×).
- Bold upright matrix notation  $\mbox{mx}\{A\}$  (A).