

The Extremes of Good and Evil

Master Thesis

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submitted to the
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August 2014

Contents

1	Introduction	1
1.1	Problem Statement	2
1.2	Contribution	3
1.3	Related Work	4
2	Theoretical Framework	5
2.1	Preliminaries	6
2.2	The Good	7
2.3	The Evil	9
2.4	Differences and Similarities	11
3	Algorithms	13
3.1	Computing the Good	13
3.2	Computing the Evil	14
3.3	Diagnosis	15
4	Experimental Evaluation	18
4.1	Settings	19
4.2	Experiments	20
4.3	Results	21
5	Conclusion	24
5.1	Summary	25
5.2	Future Work	26
A	Program Code / Resources	28
B	Further Experimental Results	29

List of Algorithms

1	Efficient Local Optimal Diagnosis	15
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List of Figures

2.1	Angel	8
2.2	Devil	10

List of Tables

4.1 Good vs. Evil 22

Chapter 1

Introduction

Most of the text in this example of a master thesis is quote from 'The Extremes of Good and Evil' (Cicero). Besides this text you find some usage examples in the following sections.

- A table can be found in Section 4.3. This example (Table 4.1) is only a suggestion. You are allowed to format your tables in your preferred style.
- An example of an algorithm is depicted in Section 3.3. Again, you are allowed to use a different style for algorithms, but the style we used to display Algorithm 1 looks quite nice.
- Chapter 1 demonstrates how to refer to chapters and algorithms and other elements of your thesis.
- You should always place definitions, propositions, and whatever might be useful in an appropriate environment. Examples can be found in section 2.1.

The structure of this draft is *non-binding*. The structure of your thesis - the breakup in chapters, sections, and so on - highly depends on the chosen topic and should be discussed with your adviser. In this draft we made no use of subsections. While subsections might make sense in your own thesis, we believe that subsubsections should be avoided if possible. Notice that we did not break up this template in different parts using the command `\part{}`. It depends on your own style and your work whether to use this option.

If you cite something, do it in the following way.

- Conference Proceedings: This problem is typically addressed by approaches for selecting the optimal matcher based on the nature of the matching task

and the known characteristics of the different matching systems. Such an approach is described in [?].

- Journal Article: S-Match, described in [?], employs sound and complete reasoning procedures. Nevertheless, the underlying semantic is restricted to propositional logic due to the fact that ontologies are interpreted as tree-like structures.
- Book: According to Euzenat and Shvaiko [?], we define a correspondence as follows.

These are some randomly chosen examples from other works. Take a look at the end of this thesis so see how the bibliography is included.

In this examples thesis you will find two chapters in the appendix. Appendix A describes the program code that might have been part of your work. It depends of the type of work wether such an appendix makes sense. Appendix B contains some additional experimental results. It might happen that most of your experimental results are presented in aggregated form; a complete listing of detailed results in the appendix might make sense. Nevertheless, there are no hard requirements with respect to the use of an appendix. It is up to you wether or not you will use an appendix (well .. as long as your adviser does not tell you something else).

Some words about the list of figures, list of algorithm, and so on. Listing your figures is obligatory. It depends on your own choice, wether to include a list of other *things*. Relevant aspects are the subject of your thesis and the way you develop your ideas. For example: If your work contains lots of tables with different experimental results, add a list of tables. If you develop and explicitly state algorithms, add a list of algorithms.

Very Important: Do not forget to sign (manually) the last page, before you submit/deliver the final version of your thesis. Otherwise your work cannot be accepted for legal reasons.

1.1 Problem Statement

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful. Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because

occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it? But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure?

On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire, that they cannot foresee the pain and trouble that are bound to ensue; and equal blame belongs to those who fail in their duty through weakness of will, which is the same as saying through shrinking from toil and pain. These cases are perfectly simple and easy to distinguish. In a free hour, when our power of choice is untrammelled and when nothing prevents our being able to do what we like best, every pleasure is to be welcomed and every pain avoided. But in certain circumstances and owing to the claims of duty or the obligations of business it will frequently occur that pleasures have to be repudiated and annoyances accepted. The wise man therefore always holds in these matters to this principle of selection: he rejects pleasures to secure other greater pleasures, or else he endures pains to avoid worse pains.

1.2 Contribution

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1.3 Related Work

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Chapter 2

Theoretical Framework

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2.1 Preliminaries

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Notice that your theoretical framework should be less trivial than the following one. In most cases a definition requires some explanations. In particular, you should only introduce a definition if the subject under discussion requires a precise definition.

Definition 1 *An entity is good if it is not an evil entity.*

In a similar way an evil entity can be defined in the following way.

Definition 2 *An entity is evil if it is not a good entity.*

Proposition 1 follows directly from Definition 1 and 2.

Proposition 1 *There exists no such entity that is evil and good at the same time.*

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2.2 The Good

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Figure 2.1: Child Angel and a white dove.

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2.3 The Evil

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Figure 2.2: Knight and Devil.

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2.4 Differences and Similarities

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Chapter 3

Algorithms

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3.1 Computing the Good

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3.3 Diagnosis

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Algorithm 1

EFFICIENTLOD(\mathcal{A} , \mathcal{O}_1 , \mathcal{O}_2)

```

1: loop
2:   for  $i \leftarrow k$  to  $|\mathcal{A}'| - 1$  do
3:     for  $j \leftarrow 0$  to  $i - 1$  do
4:       if not POSSIBLYCOHERENTPAIR( $\mathcal{A}'[j]$ ,  $\mathcal{A}'[i]$ ,  $\mathcal{O}_1$ ,  $\mathcal{O}_2$ ) then
5:          $\mathcal{A}' \leftarrow \mathcal{A}' \setminus \{\mathcal{A}'[i]\}$ 
6:          $i \leftarrow i - 1$   $\triangleright$  adjust  $i$  to continue with next element of  $\mathcal{A}'$ 
7:         break  $\triangleright$  exit inner for loop
8:       end if
9:     end for
10:  end for
11:   $k \leftarrow \text{SEARCHINDEXOFACCUSEDRESPONDENCE}(\mathcal{A}', \mathcal{O}_1, \mathcal{O}_2)$ 
12:  if  $k = \text{NIL}$  then
13:    return  $\mathcal{A} \setminus \mathcal{A}'$ 
14:  end if
15:   $\triangleright$  let  $k^*$  be the counterpart of  $k$  adjusted for  $\mathcal{A}$  such that  $\mathcal{A}[k^*] = \mathcal{A}'[k]$ 
16:   $\mathcal{A}' \leftarrow \mathcal{A}'[\dots k - 1] \cup \mathcal{A}[k^* + 1 \dots]$ 
17: end loop
```

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Chapter 4

Experimental Evaluation

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4.1 Settings

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4.3 Results

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Ontology	Baselines			Decision Tree			
	M(edian)	G(ood)	E(vil)	results	Δ -M	Δ -G	Δ -E
#301	0.825	0.877	0.877	0.855	+0.030	-0.022	-0.022
#302	0.709	0.753	0.753	0.753	+0.044	+0.000	+0.000
#303	0.804	0.860	0.891	0.816	+0.012	-0.044	-0.075
#304	0.940	0.961	0.961	0.967	+0.027	+0.006	+0.006
Average	0.820	0.863	0.871	0.848	+0.028	-0.015	-0.023

Table 4.1: Comparison between the Good and the Evil

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Chapter 5

Conclusion

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5.1 Summary

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5.2 Future Work

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Appendix A

Program Code / Resources

The source code, a documentation, some usage examples, and additional test results are available at ...

They as well as a PDF version of this thesis is also contained on the CD-ROM attached to this thesis.

Appendix B

Further Experimental Results

In the following further experimental results are ...

Ehrenwörtliche Erklärung

Ich versichere, dass ich die beiliegende Master-/Bachelorarbeit ohne Hilfe Dritter und ohne Benutzung anderer als der angegebenen Quellen und Hilfsmittel angefertigt und die den benutzten Quellen wörtlich oder inhaltlich entnommenen Stellen als solche kenntlich gemacht habe. Diese Arbeit hat in gleicher oder ähnlicher Form noch keiner Prüfungsbehörde vorgelegen. Ich bin mir bewusst, dass eine falsche Erklärung rechtliche Folgen haben wird.

Mannheim, den 31.08.2014

Unterschrift