

## **Review of the Master Thesis**

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Title: Exploring Higher Order Dependency Parsers

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The goal of the thesis is exploring the possibilities of using semantic features in dependency parsing, in particular higher-order (second and third order) features. The thesis consists of 8 sections. Sections 1 – 3 are introductory; they provide the necessary theoretical background and describe related work. Section 4 describes the data and tools used. The experiments are described in Section 5 and some more discussion is provided in Sections 6 and 7. Section 8 concludes the work. There is extensive bibliography as well as the lists of tables and figures. The attached CD contains the author's scripts and the freely redistributable parser software used in the experiments.

The thesis is well structured and written, a few typos apart, in good English. For the most part it is quite clear what has been done and how to reproduce it. Results of experiments are well analyzed and discussed.

### **Conclusion**

The thesis provides a good survey on existing work in higher-order dependency parsing and augments it by author's own experimentation. It shows that the author has acquired a compendium of knowledge in the field and that he is capable of conducting research independently. This is the second attempt to defend the thesis and the author clearly used the extra time to greatly improve the quality of the thesis. I believe that it fulfills the requirements of a Master's thesis and I recommend that it be accepted.

Jenštejn, January 22, 2012

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