one right, the tags in a window ranging from three left to three right, and the IOB suggestions for the previous two tokens.²

3) In the reverse WPDV model, the direction of chunking is reversed, i.e. it chunks from the end of each utterance towards the beginning.

4) In the R&M WPDV model, Ramshaw and Marcus's type of IOB-tags are used, i.e. starts of chunks are tagged with a B-tag only if the

one weak point: determination of the start position of NPs. I use separate WPDV models for each of the following cases:

1) Should a token now marked I-NP start a

Cf. http://ilk.kub.nl/.

²For unseen data, i.e. while being applied, the IOB suggestions used are of course those suggested by the model itself, not the true ones.

³Cf. van Halteren (2000a). Also, the difference between training and running (correct IOB-tags vs model suggestions) leads to a low expected generalization quality of hill-climbing. I therefore stop climbing after a single effective step, but using an alternative climbing procedure, in which not only the single best multiplications/division is applied per step, but which during every step applies all multiplications/divisions that yielded improvements while the opposite operation did not.