

Classwork N°10
due to 4th May 2012

Exercise: “Application of combinators to natural language analysis: aspecto-temporal analysis”

1. Derived combinators

We introduce the powers of a combinator X^n and the deferred combinators X_n , where the X is a combinator.

- (a) $B_5C_2B^2CB^2 x y z f g$
- (b) $B_3(C_2B^2) x y z f g$
- (c) $C_3B_2B x y z f$
- (d) $(B^2C_3)BB^2C x y z f g$

2. Introduction of the aspecto-temporal operators.

Give the representation of the following discourses by using the aspecto-temporal operators; STATE(O), EVENT(F), PROC(J), I-SAY.

Dialogue a.

This morning, a car accident occurred (on a certain street intersection). A man hit someone with his red car and flew away. The police chase the red car (at this moment).

Dialogue b.

Anna is explicating the reason for being late (to her boss): “ I went to the garage. And I found that I forgot to put oil in the car. So I have taken the bus.” (Lascares and Asher, 1993)

- (1) Give the predicate-argument structure of the sentences

- (2) Define the temporal relations between the sentences and formalize it
- (3) Try to establish the enunciative schemes of the given dialogues