Assignment 4: Artificial Intelligence Programming Paradigms

Fluid Construction Grammar

Deadline: Monday 16 January 2017

Description

In this assignment you are asked to implement a grammar fragment in Fluid Construction Grammar, for the verb phrase in a language of your choice (similar to the Spanish example seen in class).

- Lexical and grammatical constructions should be tackled first, expressing the meaning representations that you designed for the different tenses (past, present, future) and potentially aspects/moods.
- Morphological constructions expressing different forms of the verb stems are the second step. E.g. Producing/comprehending "ate" for an eating event in the past.

Format

Submit your source code to run the grammar with examples as well as a *scientific* report describing the design of your grammar and the resulting construction application processes. Is your grammar bi-directional? How many solutions do you get on average per sentence? Can you say something about the average branching factor in the search space?

You will present your grammar fragment with an interactive demo during the oral exam. We will agree on a date during the final lecture, Friday 23 December.