Using domain-specific languages to analyze waste processes

Abstract:

A waste process describes the processing of waste from the collection of the waste at households, over its incineration, to the deposition of the remaining waste in a landfill. It is important to know how waste processes influence the environment, for example how much climate relevant gases are produced per ton of waste and how many emissions are produced that are toxic to humans. In this talk I am going to present an application that helps with the analysis of waste processes. The application uses a domain specific language so that the domain experts easily can define waste processes themselves without the help of a programmer. Furthermore, I am going to present a general framework for the definition of domain specific languages that was used to build the application.